

SMITHSONIAN INSTITUTION
UNITED STATES NATIONAL MUSEUM
WASHINGTON, D. C.

August 6, 1936.

Prof. M. L. Fernald,
Curator of Gray Herbarium,
Harvard University,
Cambridge, Massachusetts.

Dear Professor Fernald:

Mr. Morton has prepared the final report of Dr. Skutch's
Costa Rican collection of which you purchased a set, as follows:

2383. *Skutchia caudata* Pax & Hoffm. Gen. & sp. nov. type.
2386. " " " "
2387. *Holtonia myriantha* Standl. New to North America.
Det. Standley.
2539. *Ladenbergia calycina* (Wedd.) Standl. New to
North America. Det. Standley.

Correction.

2489. *Apinagia myriophylla* Wedd. Det. C. V. Morton
(not *Maranthrum* *Schiedeanum*)

Sincerely yours,

Ellsworth P. Killip

Ellsworth P. Killip
Associate Curator
Division of Plants.

W. R. M. 1936

Lichens identified by C. W. Dodge, Pteridophytes by William R. Maxon, Gramineae by Mrs. Agnes Chase, Acanthaceae by E. C. Leonard, Bromeliaceae by Lyman B. Smith, Passiflora, Cordia, and Urticaceae by E. P. Killip, Melastomaceae by H. A. Gleason, and the remainder by C. V. Morton.

Mos. checked " " and in Nov. 1911
" " " " " " 8. H.

- 2144. *Pavonia dasypetala* (Turcz.) Standl.
- 2146. *Begonia cuspidata* C. DC.
- 2149. *Vittaria filifolia* Fée
- 2150. *Vittaria stipitata* Kunze
- 2151. *Polypodium chnoodes* Spreng.
- 2152. *Asplenium auritum* Sw.
- 2153. *Polypodium pectinatum* L., sens. lat.
- 2154. *Asplenium fragrans* Sw. (Reduced form)
- 2155. *Lasiacis scabrior* Hitchc.
- 2159. *Stictina andensis* Nyl.
- 2160. *Trichomanes polypodioides* L.
- 2161. *Hemitelia multiflora* (J. E. Sm.) R. Br.
- 2162. *Trichomanes rigidum* Sw.
- 2163. *Polypodium plicatum* Maxon, sp. nov.
- 2164. *Leptogium Standleyi* Dodge
- 2165. *Psychotria involucrata* Sw.
- 2166. *Salpichlaena volubilis* (Kaulf.) J. Sm.
- 2167. *Lasiacis procerrima* (Hack.) Hitchc.
- 2168. *Solanum diversifolium* Schlecht.
- 2169. *Hyptis* sp.
- 2171. *Funastrum clausum* (Jacq.) Schltr.
- 2172. *Hyptis suaveolens* Poit.
- 2173. *Tibouchina Bourgaeana* Cogn.
- 2177. *Valeriana mikaniae* Lindl.
- 2178. *Ardisia compressa* H.B.K.
- 2180. *Danaea nodosa* (L.) J. E. Sm.
- 2181. *Dryopteris falcata* (Liebm.) C. Chr.
- 2182. *Saccoloma inaequale* (Kunze) Mett.
- 2184. *Miconia serrulata* Naud.
- 2185. *Salvia hyptoides* M. & G.
- 2186. *Miconia dodecandra* (Desr.) Cogn.
- 2188. *Oxypetalum riparium* H.B.K.
- 2189. *Lasiacis ruscifolia* (H.B.K.) Hitchc.
- 2190. *Henriettella tuberculosa* D. Sm.
- 2191. *Calyptrella cyclophylla* D. Sm.
- 2193. *Monnina sylvatica* C. & S.
- 2194. *Manettia coccinea* (Aubl.) Willd.
- 2195. *Centrosolenia costaricana* Morton, n. sp. type.
- 2196. *Centropogon nutans* Pl. & Oerst.

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- 2197. *Dioscorea remota* Morton n. sp., type
- 2200. *Pteris pungens* Willd.
- 2203. " *biaurita* L.
- 2204. *Begonia filipes* Benth.
- 2205. *Borreria ocymoides* (Burm.) DC.
- 2206. *Lasiacis Standleyi* Hitchc.
- • 2210. *Phyllonoma ruscifolia* Willd.
- • 2211. *Clematis dioica* L.
- • 2212. *Hedyosmum calloso-serratum* Oerst.
- 2213. *Oplismenus Burmanni* (Retz.) Beauv.
- 2214. *Panicum pulchellum* Raddi
- 2215. *Oplismenus hirtellus* (L.) Beauv.
- 2216. *Selaginella eurynota* A. Br.
- 2217. *Lycopodium cernuum* L.
- 2218. *Paspalum conjugatum* Berg.
- • 2220. *Siparuna nicaraguensis* Hemsl.?
- 2221. *Ichnanthus pallens* (Sw.) Munro
- 2222. " " " "
- 2223. *Scleria melaleuca* C. & S.
- 2224. *Pteris biaurita* L.
- 2225. *Ipomoea syringaefolia* Meisn.
- 2226. *Lasiacis oaxacensis* (Steud.) Hitchc. form
- • 2227. *Rheedia edulis* Tr. & Pl.
- • 2228. *Cephaelis tomentosa* (Aubl.) Vahl
- 2229. *Lindsaea horizontalis* Hook.
- 2231. *Coccocypselum hirsutum* Bartl.
- 2232. *Pterolepis trichotoma* (Rottb.) Cogn.
- 2233. *Lepidagathis alopecuroidea* (Vahl) R. Br.
- 2234. *Desmodium adscendens* Sw.
- 2235. *Cyperus diffusus* Vahl
- • 2237. *Casearia sylvestris* Sw.
- 2238. *Desmodium intortum* Mill.
- 2240. *Pteris mollis* Christ.
- 2241. *Lindsaea quadrangularis* Raddi
- 2244. *Parmeliella pannosa* Sw.
- 2245. *Trichomanes punctatum* Poir.?
- 2246. *Begonia glabra* Aubl.
- 2249. *Trichomanes Galeottii* Fourn.
- • 2250. *Heliocarpus excelsior* Morton n. sp. type
- • 2251. *Viburnum costaricamum* (Oerst.) Hemsl.
- 2254. *Olyra lateralis* (Presl) Chase
- 2255. *Coccocypselum canescens* Willd.
- • 2256. *Cissus cardiophylla* Standl.?
- 2259. *Cochlidium rostratum* (Hook.) Maxon
- • 2260. *Clidemia rubra* (Aubl.) Mart.
- 2261. *Dioclea* ~~cf.~~ *macrantha* Ducke
- 2262. *Miconia pteropoda* Benth.
- • 2263. *Barbiera pinnata* (Pers.) Baill.
- • 2264. *Rubus trichomallus* Schlecht.
- 2265. *Hemitelia choricarpa* Maxon
- • 2266. *Heliocarpus excelsior* Morton
- • 2267. *Gouania lupuloides* (L.) Urban?
- • 2268. *Malvaviscus arboreus* Cav. sens. lat.
- • 2269. *Melochia lupulina* Sw.

- 2270. *Ipomoea purga* (Wender.) Hayne
- 2271. *Eleocharis interstincta* (Vahl) R. & S.
- 2273. *Polygonum punctatum* Ell.
- • 2275. *Vismia ferruginea* H.B.K.
- • 2278. *Psychotria brachiata* Sw.
- 2279. *Struthiopteris exaltata* (Fée) Broadh.
- 2280. *Polytaenium brasilianum* (Desv.) Benedict
- 2284. *Trichomanes Kraussii* Hook. & Grev.
- 2285. *Asplenium pseudoerectum* Hieron. (Not distributed)
- 2286. " " " " "
- 2289. *Trichomanes capillaceum* L.
- 2291. *Anthurium* sp.
- • 2292. *Lippia myriocephala* C. & S.
- 2294. *Monocardia violacea* Pennell
- 2295. *Trismeria trifoliata* (L.) Diels
- 2296. *Anemia phyllitidis* (L.) Sw.
- • 2297. *Dicliptera acuminata* Juss.
- • 2298. *Cuphea infundibulum* Koehne
- 2299. *Nephrolepis pendula* (Raddi) J. Sm.
- • 2300. *Calliandra portoricensis* (Jacq.) Benth.
- 2301. *Coix lacryma-jobi* L.
- 2302. *Polystichum platyphyllum* (Willd.) Presl
- 2303. *Dryopteris Tonduzii* (Christ) C. Chr.
- 2304. *Asplenium Otites* Link
- 2305. *Blechnum occidentale* L.
- 2306. *Adiantum tetraphyllum* H. & B. (sens. lat.)
- 2307. *Hemionitis palmata* L.
- • 2308. *Acacia angustissima* (Mill.) Kuntze
- • 2309. *Sida urens* L.
- 2311. *Pilea pubescens* Liebm.
- 2313. *Hymenophyllum ciliatum* Sw.
- 2315. *Trichomanes pyxidiferum* L. (verum)
- 2318. *Euphorbia graminea* Jacq.
- 2319. *Cyclanthera Tonduzii* Cogn.
- • 2320. *Myriocarpa izabalensis* (D. Sm.) Killip
- • 2321. " " " "
- • 2325. *Salacia praecelsa* (Miers) Griseb.
- 2327. *Scutellaria glabra* Leonard
- 2328. *Asplenium fragrans* Sw. (Reduced form)
- 2329. *Diplazium* sp., near *D. striatum* (L.) Presl
- 2330. *Dryopteris Linkiana* (Presl) Maxon
- 2331. " *exulta* var. *guatemalensis* (Baker) C. Chr.
- 2332. *Selaginella binervis* Liebm.
- 2333. *Diplazium obscurum* Christ
- 2333 1/2 " *grandifolium* Sw.
- • 2336. *Tovomitopsis glauca* Oerst.
- 2337. *Dryopteris subincisa* (Willd.) Urban
- 2338. *Tectaria Sodiroi* (Baker) Maxon
- 2339. *Asplenium abscissum* Willd.
- 2344. *Diplazium subsivaticum* Christ
- 2346. *Centrosema Plumieri* (Turp.) Benth.
- 2347. *Tinantia erecta* (Jacq.) Schl. var.
- • 2350. *Serjania racemosa* Schum.

- 2351. *Polypodium angustifolium* Sw.
- • 2353. *Miconia leucantha* Gleason
- 2354. *Asplenium Otites* Link
- 2357. *Asplenium cristatum* Lam.
- • 2358. *Carex polystachya* Wahl.
- • 2359. *Isachne arundinacea* (Sw.) Griseb.
- 2360. *Tectaria dilacerata* (Kunze) Maxon
- • 2361. *Dryopteris equestris* var. *heterolepis* C. Chr.
- • 2362. *Cardiospermum grandiflorum* Sw.
- • 2364. *Solanum bicolor* Willd.?
- • 2366. *Calonyction aculeatum* (L.) House
- • 2367. *Rivina laevis* L.
- • 2369. *Begonia conchaefolia* D. Dietr.
- • 2370. *Salvia alvajaca* Oerst.
- • 2372. *Tovaria pendula* R. & P.
- • 2374. *Conostegia* sp.
- • 2375. *Miconia reducens* Triana
- • 2376. *Chrysochlamys* sp.
- • 2377. *Dryopteris* sp. nov.
- • 2378. " *submarginalis* (L. & F.) C. Chr.
- • 2379. *Cephaelis elata* Sw.
- • 2381. *Miconia* sp.
- • 2384. *Ardisia compressa* H.B.K.
- • 2385. *Vernonia argyropappa* Buek det. Gleason
- • 2388. *Cestrum laurifolium* L'Her.?
- • 2389. *Lycopodium tubulosum* Maxon
- • 2390. *Aechmea Bernoulliana* Wittm. det. Morton
- • 2393. *Polypodium blepharodes* Maxon
- • 2394. *Diploschistes* sp.
- • 2395. *Graphina* sp.
- • 2398. *Banisteria Beecheyana* (A. Juss.) C. B. Rob.
- • 2399. *Topobea Durandiana* Cogn.
- • 2400. *Mimosa albida* H. & B. var.
- • 2403. *Rhynchospora polyphylla* Vahl
- • 2407. *Vernonia canescens* H.B.K. det. Gleason
- • 2410. *Hamelia patens* Jacq.
- • 2411. *Polypodium* sp. nov.
- • 2412. *Pennisetum bambusiforme* (Fourn.) Hemsl.
- • 2413. *Hybanthus attenuatus* (H. & B.) G. K. Schulze
- • 2416. *Cestrum scandens* Vahl
- • 2417. *Solanum incomptum* Bitt.
- • 2418. *Buddleia americana* L.
- • 2419. *Begonia carpinifolia* Liebm.
- • 2420. *Dombeya lappacea* L'Her.
- • 2421. *Polytaenium lineatum* (Sw.) J. Sm.
- • 2422. *Sommeria grandis* (Bartl.) Standl.
- • 2424. *Chaetocalyx latisiliqua* (Desv.) Benth.
- • 2426. *Elatariopsis Oerstedii* (Cogn.) Pitt.
- • 2427. *Pachyrhizus tuberosus* (Lam.) Spreng.?
- • 2428. *Cassia* sp. aff. *Peiranisia longirostrata* B. & P.

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- 2430. *Henriettella* sp. Probably new.
- o 2433. *Catillaria* sp.
- o 2435. *Porina* sp.
- 2436. *Columnnea florida* Morton, n. sp. type
- o 2437. *Chamaedorea macrospadix* Oerst.
- 2439. *Alchornea latifolia* Sw.
- 2440. *Sauvagesia erecta* L.
- 2441. *Bellucia costaricensis* Cogn.
- 2442. *Alchornea latifolia* Sw.
- 2443. *Jussiaea affinis* DC.
- 2446. *Polypodium limula* Christ
- 2447. *Miconia Mathaei* Naud.
- 2449. *Psychotria* sp.
- 2450. *Hieronyma oblonga* var. *Bentharii* (Tul.) Muell. Arg.
- 2451. *Solanum rugosum* Dunal
- 2453. *Justicia pectoralis* Jacq.
- 2454. *Wissadula excelsior* (Cav.) Presl
- 2455. *Indigofera mucronata* Spreng.
- 2457. *Miconia* sp.
- 2458. *Cuscuta corymbosa* var. *grandiflora* Engelm.
- 2459. *Cestrum* n. sp.?
- 2461. *Cassia brevipes* DC.
- 2462. *Stylosanthes guianensis* (Aubl.) Sw.
- 2463. *Acisanthera quadrata* Juss.
- 2464. *Aeschynomene sensitiva* Sw.
- 2465. *Tonina fluviatilis* Aubl.
- 2466. *Jussiaea lithospermifolia* Kunth
- o 2467. *Xyris macrocephala* Vahl
- 2568. *Desmodium barbatum* (L.) Benth. & Oersted
- 2469. *Rhynchospora cyperoides* (Sw.) Mart.
- 2470. *Scleria bracteata* Cav.
- 2471. *Tephrosia nitens* Benth.
- 2472. " " "
- 2474. *Browallia americana* L.
- 2476. *Burmeistera suerrensii* Wimm. det. Gleason
- 2477. *Miconia habrolepis* Standl.
- 2480. *Diplazium atirrense* (Donn. Sm.) Morton
- o 2481. *Cladonia didyma* var. *muscigena* (Eschw.) Vain
- 2486. *Phaseolus speciosus* H.B.K.
- 2487. *Acalypha tenuicauda* Pax & Hoffm.? ex char.
- 2488. *Vernonia patens* H.B.K. det. Gleason
- 2489. *Marathrum Schiedeianum* Cham.
- 2490. *Nectandra villosa* Mez
- 2492. *Dolioscarpus dentatus* (Aubl.) Standl.
- 2493. *Palicourea costaricensis* Benth.
- 2495. *Marila verapazensis* D. Sm.
- 2496. *Carica dolichaula* D. Sm.
- 2497. *Hampea appendiculata* (D. Sm.) Standl.
- 2498. *Novomitopsis glauca* Oerst.
- 2500. *Miconia leucantha* Gleason, n. sp. type
- 2501. *Allophyllus psilospermus* Radlk.
- 2503. *Miconia* sp.
- 2505. *Clematis dioica* L.

- ✓ 2506. *Machaerium costaricanum* Pitt.
- ✓ 2508. *Vochysia ferruginea* Mart.
- ✓ 2509. *Cordia glabra* L.?
- ✓ 2510. *Simaruba glauca* DC.
- ✓ 2511. *Banara guianensis* Aubl. var. ~~2511~~
- ✓ 2513. *Miconia* sp.
- ✓ 2515. *Brünellia Skutchii* Morton, n. sp., type
- ✓ 2516. *Rhynchosia pyramidalis* Lam.
- ✓ 2518. *Inga multijuga* Benth.
- ✓ 2519. *Hasseltia mexicana* (Gray) Standl.
- ✓ 2520. *Lacistema aggregatum* (Berg.) Rusby
- ✓ 2522. *Tristicha hypnoides* (St. Hil.) Spreng.
- ✓ 2524. *Juanulloa Sergii* D. Sm.
- ✓ 2525. *Vernonia brachiata* Benth. det. Gleason
- ✓ 2526. *Dorstenia chocóiana* var. *integrifolia* D. Sm.
- ✓ 2529. *Trichomanes rupestre* (Raddi) v. d. B.
- ✓ 2531. *Asplenium laetum* Sw.
- ✓ 2532. *Tectaria heracleifolia* (Willd.) Underw.
- ✓ 2533. *Cyphomandra costaricensis* D. Sm.
- ✓ 2537. *Miconia scorpioides* (C. & S.) Naud.
- ✓ 2538. *Hydrangea Skutchii* Morton, n. sp. type
- ✓ 2540. *Ichnanthus axillaris* (Nees.) Hitchc. & Chase
- ✓ 2541. *Matayba* n. sp.?
- ✓ 2542. *Dryopteris aspidioides* (Willd.) C. Chr.
- ✓ 2543. *Selaginella flabellata* (L.) Spring
- ✓ 2544. *Trichilia Oerstediana* C. DC.
- ✓ 2546. *Tournefortia bicolor* Sw.
- ✓ 2547. *Physcia solediosa*
- ✓ 2548. *Cissampelos pareira* L.
- ✓ 2549. *Miconia argentea* (Sw.) DC.
- ✓ 2550. *Pitcairnia heterophylla* (Lindl.) Beer
- ✓ 2551. *Hymenophyllum fucoides* Sw.
- ✓ 2552. *Trichomanes Kraussii* Hook. & Grev.
- ✓ 2553. *Guatteria dolichopoda* D. Sm.
- ✓ 2556. *Jacobinia macrantha* (Oerst.) Benth. & Hook.
- ✓ 2559. *Tillandsia chontalensis* Baker
- ✓ 2562. *Boehmeria ulmifolia* Wedd.
- ✓ 2563. *Iresine celosia* L.
- ✓ 2564. *Iresine frutescens* Moq.
- ✓ 2568. *Smilax panamensis* Morong
- ✓ 2569. *Cordia alliodora* (R. & P.) Cham.
- ✓ 2570. *Ipomoea* sp. aff. *trichocarpa* Ell. Perhaps new.
- ✓ 2571. *Jussiaea peruviana* L.
- ✓ 2572. *Gilibertia gonatopoda* D. Sm. Det. A. C. Smith
- ✓ 2573. *Aphelandra Sinclairiana* Nees
- ✓ 2574. *Blechnum ruellioides* Leonard n. sp. type
- ✓ 2575. *Croton glabellus* L.
- ✓ 2576. *Justicia glabra* (Oerst.) Benth. & Hook.
- ✓ 2577. *Leptochilus cladorrhizans* (Spreng.) Maxon
- ✓ 2580. *Anthurium trinerve* Miq.
- ✓ 2581. *Crotalaria guatemalensis* Benth.
- ✓ 2582. *Conostegia lanceolata* Cogn.

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- 2583. *Smilax panamensis* Morong
- 2584. *Chaetoptelea mexicana* Liebm.
- 2585. *Chrysochlamys psychotriaefolia* Hemsl.
- 2587. *Serjania mexicana* Willd.
- 2588. *Solanum Donnell-Smithii* Coult.
- 2589. *Guatteria* n. sp.?
- 2590. *Hedyosmum calloso-serratum* Oerst.
- 2591. *Besleria acutifolia* Benth.
- 2594. *Clusia odorata* Seem.
- 2595. *Sloanea melianthera* D. Sm.?
- 2596. *Alchornea costaricensis* Pax & Hoffm.?
- 2597. *Dryopteris concinna* (Willd.) Kuntze
- 2598. *Marathrum Schiedeana* Cham.
- 2599. *Phenax hirtus* (Sw.) Wedd.
- 2600. *Trema canescens* Blume
- 2601. *Allophyllus psilospermus* Radlk.
- 2602. *Tradescantia cumanensis* Kunth
- 2603. *Croton draco* var. *hibisciformis* Muell. Arg.
- 2604. *Conostegia* sp.
- 2606. *Blechnum unilaterale* Sw.
- 2607. *Trichomanes pinnatum* Hedw.
- 2609. *Mollinedia Pinchotiana* Perk.
- 2610. *Alchornea costaricensis* Pax & Hoffm.?
- 2613. *Symphonia globifera* L. f.
- 2615. *Nectandra glabrescens* Benth.
- 2616. *Cassia bacillaris* L.
- 2617. *Passiflora vitifolia* H.B.K.
- 2618. *Struthanthus polystachya* (R. & P.) Blume?
- 2619. *Hyptis obtusiflora* Presl
- 2620. *Icica costaricensis* Rose
- 2623. *Conostegia bigibbosa* Cogn.
- 2626. *Anthurium Bakeri* Hook.
- 2628. *Mollinedia Pinchotiana* Perk.
- 2629. *Alternanthera laguroides* Standl.
- 2630. *Hydrangea Skutchii* Morton
- 2632. *Asplenium formosum* Willd.

2583. *Asplenium formosum* Willd.
 2584. *Hydrangea* *Shutchii* Morton
 2585. *Alaternanthes laevigata* Standl.
 2586. *Mollinedia pinchotiana* Perk.
 2587. *Anturium Bakeri* Hook.
 2588. *Conostegia bipinnata* Cogn.
 2589. *Lobelia costaricensis* Rose
 2590. *Hypoxis obtusifolia* Presl
 2591. *Struthanthus polystachya* (R. & P.) Blume
 2592. *Passiflora vitifolia* H.B.K.
 2593. *Cassia bacillaris* L.
 2594. *Nectandra glabrescens* Benth.
 2595. *Gymnomia globifera* L. f.
 2596. *Alchornea costaricensis* Pax & Hoffm.
 2597. *Mollinedia pinchotiana* Perk.
 2598. *Trichomanes pinnatum* Bedw.
 2599. *Plethrum latifolia* Sw.
 2600. *Conostegia* sp.
 2601. *Trogon hirundo* var. *hibisciformis* Moell. Arg.
 2602. *Tradescantia cuneata* Kunth
 2603. *Allophyllus ptilosperma* Radlk.
 2604. *Trema canescens* Blume
 2605. *Phorax hirta* (Sw.) Wedd.
 2606. *Martium Schiedeanum* Cham.
 2607. *Dryopteris concinna* (Willd.) Kuntze
 2608. *Alchornea costaricensis* Pax & Hoffm.
 2609. *Stenosia melanthera* D. Sm.
 2610. *Clinia odorata* Sw.
 2611. *Besleria acutifolia* Benth.
 2612. *Hevea callosa-serotina* Gerst.
 2613. *Cratogeomys* n. sp.
 2614. *Solanum Donnell-Smithii* Condit.
 2615. *Serjania mexicana* Willd.
 2616. *Chrysoclamys psychotrioides* Hemsl.
 2617. *Chaetoptelea mexicana* Liebm.
 2618. *Smilax panamensis* Morong

Costa Rica Plants collected by Alexander F. Skutch, 1935-36.

Supplementary list.

(Note:--All numbers now reported upon excepting 2 Rubiaceae, 2 Euphorbiaceae and 2 Compositae)

Mosses identified by E. Bartram, Orchidaceae by O. Ames, Piperaceae by W. Trelease, ^BCompositae by S. F. Blake, and Apocynaceae by R. Woodson.

" " = at G.H.
" " = at A.H.

- ✓ 2145. *Micromitrium lamprocarpum* (C. M.) Par.
- ✓ 2148. *Rhacopilum tomentosum* (Sw.) Brid.
- ✓ 2156. *Piper formici-tolerans* Trel. n. sp. type
- ✓ 2157. " *subasperatum* Trel. n. sp. type
- ✓ 2158. " *capitatum* Trel. n. sp. type
- ✓ 2170. *Tagetes microglossa* Benth.
- ✓ 2174. *Piper vagans* Trel.
- ✓ 2175. " *linearifolium* C. DC.
- ✓ 2176. *Eupatorium laevigatum* Lam.
- ✓ 2179. *Piper ducis* Trel. n. sp. type
- ✓ 2183. " *marginatibaccum* Trel. n. sp. type
- ✓ 2187. *Oliganthes discolor* (H.B.K.) Sch. Bip.
- ✓ 2192. *Oyedaea verbesinoides* DC.
- ✓ 2198. *Ponthieva racemosa* (Walt.) Mohr
- ✓ 2199. *Peperomia tenuinervis* Trel. n. sp. type
- ✓ 2202. *Philonotis uncinata* (Schwaegr.) Brid.
- ✓ 2207. *Calymperes nicaraguense* Ren. & Card. New to Costa Rica.
- ✓ 2208. *Microthamnium Lehmanii* Besch.
- ✓ 2209. *Ochrobryum Gardnerianum* Mitt. New to Costa Rica.
- ✓ 2219. *Zexmenia frutescens* (Mill.) Blake
- ✓ 2239. *Ichthyothere scandens* Blake
- ✓ 2242. *Rhizogonium spiniforme* (Hedw.) Bruch
- ✓ 2248. *Brachymenium radiculosum* (Schwaegr.) Par. New to Costa Rica.
- ✓ 2252. *Octoblepharum albidum* Hedw.
- ✓ 2268. *Hymenostephium cordatum* (H. & A.) Blake
- ✓ 2272. *Spilanthes americana* (Mutis) Hieron.
- ✓ 2274. *Mikania micrantha* H.B.K.
- ✓ 2277. *Oncidium Titania* Schltr.
- ✓ 2281. *Peperomia tecticola* C. DC.
- ✓ 2282. *Tayloria Moritziana* C. M.
- ✓ 2283. *Piper sagittifolium* C. DC.
- ✓ 2288. *Peperomia antennifera* Trel. n. sp. type
- ✓ 2287. *Peperomia gleicheniaeformis* Trel. n. sp. type
- ✓ 2290. *Piper conceptum* Trel.
- ✓ 2293. " *heterophlebium* Trel. n. sp. type
- ✓ 2310. *Eupatorium odoratum* L.
- ✓ 2312. *Piper sublineatum* Kuntze
- 2314. " *sesquipedale* Trel. n. sp. type

Skutch-Costa Rica

- ✓ 2316. *Lockhartia amoena* Endres & Rchb. f.
- ✓ 2317. *Piper pileatum* Trel.
- ✓ 2317 1/2 *Piper pileatum* Trel.
- ✓ 2323. *Allomarkgrafia plumeriaefolia* Woods. New to North America.
- ✓ 2324. Specimen unidentifiable. Destroyed.
- ✓ 2335. *Peperomia Jimenezana* (C. DC.) Trel.
- ✓ 2340. *Peperomia peltolimba* C. DC.
- ✓ 2341. *Melanthera deltoidea* Michx.
- ✓ 2342. *Bidens pilosa* L.
- ✓ 2343. *Piper magnilimbum* C. DC.
- ✓ 2345. *Viguiera sylvatica* Klatt.
- ✓ 2348. *Epidendrum Pseudepidendrum* Rchb. f.
- ✓ 2349. *Mikania punctata* Klatt.
- ✓ 2352. *Entodon Hampeanus* C. M.
- ✓ 2355. *Stenorrhynchus speciosus* (Jacq.) L. C. Rich.
- ✓ 2356. *Piper carrilloanum* C. DC.
- ✓ 2363. *Mikania guaco* H. & B.
- ✓ 2365. *Mikania Standleyi* Rob.
- ✓ 2371. *Zexmenia virgulta* Klatt.
- ✓ 2373. *Piper longepetiolatum* (C. DC.) Trel.
- ✓ 2380. *Peperomia pseudotetraphylla* Trel.
- ✓ 2382. *Otopappus verbesinoides* Benth.
- ✓ 2396. *Calea Pittieri* Rob. & Greenm.
- ✓ 2397. *Pleurothallis stenostachya* Rchb. f.
- ✓ 2401. *Peperomia ligescens* C. DC.
- ✓ 2404. *Sematophyllum flavidum* Mitt. New to Costa Rica.
- ✓ 2405. *Oncidium Reehingerianum* Kränzlin
- ✓ 2406. *Eupatorium pycnocephalum* Less.
- ✓ 2408. *Mikania cordifolia* (L.) Willd.
- ✓ 2409. *Cosmos caudatus* H.B.K.
- ✓ 2423. *Alomia microcarpa* (Benth.) Rob.
- ✓ 2425. *Eupatorium solidaginoides* H.B.K.
- ✓ 2429. *Baccharis trinervis* (Lam.) Pers.
- ✓ 2438. *Masdevallia attenuata* Rchb. f.
- ✓ 2445. " *Laucheana* Kränzlin
- ✓ 2452. *Baccharis trinervis* (Lam.) Pers.
- ✓ 2460. *Eupatorium amygdalinum* Lam.
- ✓ 2473. *Tristicha hypnoides* (St. Hil.) Spreng.
- ✓ 2479. *Piper delectans* Trel. n. sp. type
- ✓ 2482. *Eupatorium vitalbae* DC.
- ✓ 2484. *Sobralia pleiantha* Schltr.
- ✓ 2485. *Scaphiglottis mesocopis* (Endres & Rchb. f.) B. & H. ex Hemsl.
- ✓ 2491. *Trixis divaricata* (H.B.K.) Spreng. Apparently first North American record.
- ✓ 2494. *Fissidens pyrenocystis* Gard. New to Costa Rica
- ✓ 2502. *Senecio schizotrichus* Greenm. n. sp. type
- ✓ 2504. *Piper salulatrix* Trel. n. sp. type
- ✓ 2507. *Neurolaena lobata* (L.) R. Br.
- ✓ 2512. *Mikania riparia* Greenm.
- ✓ 2514. " *Skutchii* Blake, n. sp. type

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- ✓ 2517. *Oyedaea verbesinoides* DC.
- ✓ 2521. *Hexisea bidentata* Lindl.
- ✓ 2523. *Peperomia cartagoana* Trel.
- ✓ 2527. *Trichopilia marginata* Henfr.
- ✓ 2528. *Peperomia martagonifolia* C. DC.
- ✓ 2530. *Lepidopilum Skutchii* Bartr. n. sp. type
- ✓ 2534. *Tayloria Moritziana* C. M.
- ✓ 2535. *Philonotis tenella* (C.M.) Besch.
- ✓ 2536. *Eupatorium macrophyllum* L.
- ✓ 2542. *Dryopteris aspidioides* (Willd.) C. Chr.
- ✓ 2555. *Eupatorium elatum* Steetz
- ✓ 2561. " *platyphyllum* Rob.
- ✓ 2565. *Verbesina turbacensis* H.B.K.
- ✓ 2566. *Eupatorium Thieleamum* Klatt
- ✓ 2567. *Brassia Gireoudiana* Rehb. f. & Warsc.
- ✓ 2568. *Oncidium Isthmii* Schltr.
- ✓ 2592. *Vanilla Pfaviana* Rehb. f.
- ✓ 2593. *Sarcorrhachis anomala* Trel.
- ✓ 2608. *Gnaphalium attenuatum* DC.
- ✓ 2610. *Alchornea costaricensis* Pax & Hoffm.?
- ✓ 2611. *Piper opinatum* Trel. n. sp. type
- ✓ 2612. " *candelarium* C. DC.
- ✓ 2614. *Trixis radialis* (L.) Kuntze
- ✓ 2615. *Mandevilla hirsuta* (A. Rich.) K. Sch.
- ✓ 2624. *Piper hians* Trel. n. sp. type
- ✓ 2625. " *pseudofimbriatum* Trel.
- ✓ 2631. *Peperomia Alexandri* Trel. n. sp. type

Corrections to previous list.

- ✓ 2229. Reported as *Lindsaea horizontalis* Hook. is a mixture. The second element, *Lindsaea lancea* (L.) Bedd., may be called 2229a.
- ✓ 2368. *Malvaviscus arboreus* Cav. Previously listed as 2268.
- ✓ 2586. *Smilax panamensis* Morong. Previously listed as 2568.
- ✓ 2605. *Nectandra glabrescens* Benth. Previously listed as 2615

Bundes 434-8

Gray

9861 9 1 AON W.B.M.

Costa Rica Plants collected by A. F. Skutch.

Mosses identified by E. B. Bartram, Pteridophyta by William R. Maxon, Gramineae by A. Chase, Orchidaceae by O. Ames, Urticaceae by E. P. Killip, Catopsis by L. B. Smith, Gilibertia by A. C. Smith, the remainder by C. V. Morton.

Species new to the flora of Costa Rica are indicated by an *

-
- ✓2634. *Nectandra panamensis* Mez
 - ✓2635. *Eleusine indica* (L.) Gaertn.
 - ✓2636. *Dioscorea convolvulacea* subsp. *esurientum* Uline
 - ✓2637. *Marginariopsis Wiesbaurii* (Sod.) C. Chr. Rare
 - ✓2638. *Dioscorea borealis* Morton n. sp. type
 - ✓2639. *Elaphoglossum* sp.
 - ✓2641. *Lantana camara* L.
 - ✓2642. *Cornutia grandifolia* C. & S.
 - ✓2643. *Kyllinga odorata* Vahl
 - ✓2644. *Cyperus diffusus* Vahl
 - ✓2645. " *caracasanus* Kunth
 - ✓2647. *Setaria geniculata* (Lam.) Beauv.
 - ✓2648. *Sporobolus Poiratii* (R. & S.) Hitchc.
 - ✓2649. *Saracha Rothii* (Poir.) Morton
 - ✓2650. *Nephrolepis pectinata* (Willd.) Schott
 - ✓2651. *Saurauia costaricensis* D. Sm.
 - 2654. *Burmeistera cyclostignata* D. Sm.
 - 2655. *Cassia caudata* Standl. *
 - ✓2656. *Elaphoglossum* sp.
 - ✓2658. *Belotia macrantha* Sprague * ex char.
 - 2660. *Ardisia Skutchii* Morton, n. sp. type
 - ✓2661. *Calathea insignis* Peters
 - 2662. *Pescatoria cerina* Rchb. f.
 - ✓2663. *Polypodium serpentinum* Christ
 - 2664. *Monstera obliqua* (Miq.) Walp.
 - ✓2665. *Guarea bullata* Radlk. First flowering collection
 - ✓2666. *Frantzia Pittieri* (Cogn.) Pitt.
 - ✓2667. *Polypodium truncatulum* Rosenst.
 - ✓2668. *Nectandra rectinervia* Meisn.?
 - ✓2669. *Helosis mexicana* Liebm.
 - ✓2670. *Arrabidaea* sp. Perhaps new.
 - ✓2671. *Panicum maximum* Jacq.
 - ✓2672. *Cyperus incompletus* (Jacq.) Link
 - ✓2673. *Helicteres guazumaefolia* HBK
 - ✓2676. *Diastema exiguum* Morton *
 - 2677. *Callicostella pallida* (Hornsch.) Jaeg.
 - ✓2679. *Dryopteris patula* (Sw.) Underw.
 - ✓2681. ~~Xanthosoma~~ *pilosum* Koch
 - ✓2684. *Xiphidium caeruleum* Aubl.
 - ✓2686. *Asplenium serratum* L.
 - ✓2688. *Calathea macrosepala* Schum.

Skutch-2

- ✓2689. *Lithachne pauciflora* (Sw.) Beauv.
- ✓2690. *Costus Skutchii* Morton, n. sp. type
- ✓2691. *Richardia scabra* L.
- ✓2692. *Casearia sylvestris* Sw. var. *vel.* sp. nov.
- ✓2693. *Cestrum Endresii* Francey ex char.
- 2694. *Rhacopilopsis trinitensis* (C. M.) E. G. Britt & Dix *
- 2695. *Rhizogonium spiniforme* (Hedw.) Bruch
- ✓2696. *Cissampelos grandifolia* Tr. & Pl.
- ✓2698. *Polypodium fraxinifolium* Jacq. sens lat.
- ✓2701. *Struthiopteris ensiformis* (Liebm.) Broadh.
- ✓2702. *Anthericum macrophyllum* Baker ex char.
- 2703. *Sematophyllum loxense* (Hook.) Mitt.
- ✓2705. *Gynandropsis speciosa* DC.
- 2707. *Cordia ferruginea* (Lam.) R. & S. var.
- ✓2708. *Solanum synantherum* Sendtn.
- ✓2709. *Dioscorea convolvulacea* subsp. *esurientum* Uline
- ✓2710. *Elaphoglossum piloselloides* (Presl) Moore sens lat.
- ✓2711. *Tetrapteris Schiedeana* C. & S.
- 2713. *Pleuropetalum Sprucei* (Hook. f.) Standl.
- ✓2715. *Asplenium obtusifolium* var. *riparium* (Liebm.)
- ✓2719. *Clusia uvitana* Pitt.
- ✓2720. *Elaphoglossum* sp.
- ✓2721. *Hasseltia floribunda* HBK
- ✓2722. *Perrottetia longistylis* Rose vel aff.
- ✓2723. *Cissus rhombifolia* Vahl
- ✓2725. *Blepharodon mucronatum* (Schl.) Dcne.
- ✓2726. *Pavonia rosea* C. & S.
- ✓2727. *Inga spectabilis* Willd.
- ✓2728. *Solanum aculeatissimum* Jacq.
- ✓2730. *Utricularia Endresii* Rchb. f.
- ✓2731. *Rynchospora mariusculus* Nees
- ✓2732. " *robusta* Boeckl? small form.
- ✓2734. *Panicum parvifolium* Lam.
- ✓2735. *Scleria microcarpa* Nees
- ✓2736. *Cyperus luzulae* (L.) Retz.
- ✓2738. *Monophlegma trinervium* (D. Sm.) Piper
- ✓2742. *Asplenium alatum* H. & B.
- 2743. *Chamaedorea pacaya* Oerst.
- 2745. *Anoetangium euchloron* (Schw.) Mitt.
- 2746. *Doryopteris palmata* (Willd.) J. Sm.
- ✓2747. *Achimenes candida* Lindl. * First collection since the type.
- ✓2748. *Gouania lupuloides* (L.) Urban
- ✓2749. *Verbena littoralis* HBK
- ✓2750. *Dorstenia contrajerva* L.
- ✓2752. *Malaxis Parthoni* Morren
- ✓2753. *Polypodium anetioides* Christ
- ✓2755. *Mitracarpus hirtus* (L.) DC.
- ✓2756. *Mucuna Holtoni* (Ktze) Moldenke
- ✓2757. *Machaerium confusum* Morton sp. nov. type
- ✓2758. *Banisteria* n. sp.? Fruits needed.
- ✓2759. *Borreria laevis* (Lam.) Griseb.
- 2760. *Polypodium percrassum* Baker val aff.
- 2761. *Mittenothamnium diminutivum* (Hpe) E. G. Britt.
- ✓2762. *Pleiostachya pruinosa* (Regel) Schum.

2763. *Ornithocephalus Tonduzii* Schltr.
 2764. *Syrrhopodon Bernoullii* C. M. *
- ✓2766. *Dicranopteris pectinata* (Willd.) Underw.
 ✓2767. *Leiphamos lutea* Morton n. sp. type
 2768. *Burmannia* n. sp.
 ✓2769. *Burmannia tenella* Benth. * vel aff.
 ✓2770. *Lophidium elegans* (Vahl) Presl
 2771. *Catopsis apicroides* (C. & S.) Baker
 2772. *Rhipidopteris peltata* var. *foeniculacea* (HBK)
 ✓2773. *Lippia reptans* HBK
 ✓2774. *Borreria laevis* (Lam.) Griseb.
~~2775. *Costus sanguineus* D. Sm.~~
 ✓2776. *Dryopteris brachyodus* (Kunze) Ktze
 2777. *Epidendrum paniculatum* R. & P.
 ✓2778. *Calathea violacea* (Rosc.) Lindl.
 ✓2781. *Dryopteris nigrovenia* (Christ) C. Chr.
 2782. *Psychotria dispersa* Standl.
 ✓2783. *Vincetoxicum viridiflorum* (Mey.)
 ✓2786. *Cassia Valeriol* (R. & R.) Morton. Second collection known
 2789. *Solanum trizygum* subsp. *chiriquianum* Bitt. * ined.
 ✓2790. *Capsicum macrophyllum* (HBK.) Standl.
 ✓2792. *Eryngium foetidum* L.
 ✓2793. *Scoparia dulcis* L.
 ✓2796. *Elaphoglossum* sp.
 ✓2797. *Conomorpha peruviana* var. *rostrata* (Hassk.) Mez. * Genus
 new to continental North America.
 ✓2798. *Gilibertia arborea* (L.) March
 2800. *Fissidens Garberi* Lesq. & James
 ✓2801. *Hymenophyllum polyanthos* Sw.
 ✓2805. *Posoqueria latifolia* (Rudge.) R. & S.
 ✓2806. *Eugenia* sp. Perhaps new.
 ✓2807. *Epidendrum pygmaeum* Hook.
 2808. *Tetrapteris reticulata* Small * Fruits needed.
 ✓2809. *Cassia spectabilis* DC.
 ✓2810. *Euphorbia hirta* L.
 ✓2811. *Mecardonia procumbens* (Mill.) Small
 ✓2812. *Cissus cardiophylla* Standl.
 ✓2813. *Ocotea pedalifolia* Mez
 ✓2814. *Hecistopteris pumila* (Spreng.) J. Sm.
 ✓2815. *Polypodium Alfarii* D. Sm.
 ✓2817. *Oleandra costaricensis* Maxon
 ✓2818. *Polypodium duale* Maxon
 ✓2820. *Mandevilla hirsuta* (Rich.) Schum.
 ✓2821. *Ocotea cuneata* Mez?
 2822. *Campylopus porphyreodictyos* (C. M.) Mitt.
 2823. *Rhaphidorrhynchium Lindigii* (Hpe) Broth.
 2824. *Polytrichum antillarum* Rich.
 ✓2825. *Stelis* n. sp.
 ✓2826. *Polypodium blepharodes* Maxon
 ✓2827. *Utricularia verapazensis* Morong
 2828. *Cordia ferruginea* (Lam.) R. & S. var.

2789

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- ✓2829. *Borreria ocymoides* (Burm.) DC.
- ✓2830. *Polypodium subtile* Kunze
- 2831. " *Homersleyi* Maxon *
- 2832. " *rosulatum* Christ ex char.
- ✓2833. *Cissampelos grandifolia* Tr. & Pl.
- 2835. *Maranta arundinacea* L.
- 2837. *Campelia zanonii* (L.) HBK
- ✓2838. *Athyrocarpus persicariaefolius* (DC.) Hemsl.
- ✓2839. *Drymonia fimbriata* Morton, sp. nov. type
- 2840. *Polypodium sphenoides* Kunze
- 2842. *Funaria calvescens* Schw.
- 2843. *Taxithelium planum* (Brit.) Mitt.
- ✓2845. *Polytaenium lineatum* (Sw.) J. Sm.
- ✓2847. *Zamia pseudoparasitica* Yates * ex char.
- 2849. *Hypopterygium Tamarisci* (Sw.) Brid.
- 2852. *Dichorisandra hexandra* (Aubl.) Standl.
- ✓2853. *Begonia lignescens* Morton, n. sp. type
- ✓2857. *Hyptis capitata* Jacq.
- ✓2858. *Hemidiodia ocymifolia* (Willd.) Schum.
- ✓2859. *Kyllinga brevifolia* Rottb.
- ✓2860. *Eleocharis retroflexa* (Poir.) Urban
- ✓2861. *Borreria ocymoides* (Burm.) DC. var.?
- ✓2862. *Capsicum viscidum* Standl. * ex char.
- ✓2863. *Urera elata* (Sw.) Griseb.
- ✓2864. *Panicum boliviense* Hack.
- ✓2866. *Hasseltia floribunda* HBK
- ✓2868. *Buettneria catalpaefolia* Jacq.
- ✓2869. *Tetrapteris Schiedeana* C. & S.
- ✓2870. *Monocardia violacea* Pennell
- ✓2871. *Albizzia adinocephala* (D. Sm.) B. & R.
- 2872. *Polypodium blepharodes* Maxon

Omitted from above

- ✓2784. *Jussiaea peruviana* L. aff.
- ✓2787. *Petastoma patelliferum* Miers

Additions and corrections to previous lists.

- ✓2256. *Cissus biformifolia* Standl.? ex char. (non *C. cardiophylla* Standl.)
- ✓2388. *Cestrum Baenitzii* Lingelsh. (non *C. laurifolium*)
- ✓2416. *Cestrum nocturnum* L. (non *C. scandens*)
- ✓2554. *Senecio Hoffmannii* Klatt. det. J. M. Greenman.

Costa Rica Plants collected by A. F. Skutch
Supplementary list of Second Distribution.

Rubiaceae identified by P. C. Standley, Bromeliaceae by L. B. Smith,
Melastomaceae by H. A. Gleason, Polygalaceae and Compositae by S. F.
Blake, Piperaceae by W. Trelease, Musaceae by R. F. Griggs, Aegiphila
by H. Moldenke, Heliotropium by I. Johnston, Compsonura and Cavendishia
by A. C. Smith, the remainder by C. V. Morton,
January 1937.

- ✓2640. Psychotria hebeclada DC.
- 2652. Guzmannia Roezli (E. Morr.) Mez. New to N. America
- ✓2657. Clibadium anceps Greenm.
- ✓2659. Chiococca alba (L.) Hitchc.
- ✓2674. Polygala paniculata L.
- ✓2675. Peperomia rata Trel. n. sp. type
- ✓2680. Aegiphila panamensis Moldenke
- ✓2682. Psychotria pubescens Sw.
- ✓2685. Heliconia tortuosa Griggs
- ✓2687. Clidemia fraterna Gleason sp. nov. type
- ✓2697. Psychotria Mortoniana Standl. n. sp. type
- ✓2699. Psychotria costaricensis Polak.
- 2700. Clidemia dentata D. Don
- ✓2706. Erechites hieracifolia (L.) Raf.
- ✓2712. Psychotria dispersa Standl.
- 2714. Heliconia acuminata L. C. Rich.
- ✓2716. Piper papillicarpum Trel. sp. nov. type
- ✓2724. Chaptalia nutans (L.) Polak.
- ✓2729. Palicourea costaricensis Benth.
- ✓2733. Clibadium surinamense L.
- 2737. Heliotropium lagoense (Warm.) Gürke
- ✓2739. Schistocarpa oppositifolia (Kuntze) Rydb.
- ✓2740. Piper anisophyllum var. granulatum Trel. n. var. type
- ✓2741. Psychotria macrophylla R. & P.
- 2744. " pubescens Sw.
- ✓2751. Erechites valerianaefolia (Wolf) DC.
- 2757. Machaerium biovulatum Micheli
- ✓2775. Costus formosus Morton n. sp. type
- ✓2780. Cyperus sp.
- 2785. Arthrostemma macrodesmum Gleason
- ✓2788. Leandra dichotoma (Don) Cogn.
- ✓2791. Compsonura excelsa A. C. Smith n. sp. type
- ✓2794. Cosmibuena ovalis Standl.
- ✓2795. Coussarea paniculata (Vahl) Standl.
- ✓2799. Miconia sylvestris Gleason sp. nov. type
- ✓2802. Cavendishia Skutchii A. C. Smith n. sp. type

Skutch

- ✓2803. *Clidemia ramiflora* Gleason n. sp. type
- ✓2816. *Miconia dorsiloba* Gleason n. sp. type
- ✓2836. *Rudgea Skutchii* Standl. n. sp. type
- 2846. *Piper generalense* Trel. n. sp. type
- 2848. *Psychotria uliginosa* Sw.
- ✓2850. *Palicourea macrosepala* Krause
- ✓2851. *Peperomia defracta* Trel. n. sp. type
- ✓2856. *Cosmos caudatus* H.B.K.
- ✓2865. *Piper obitu-sericeum* Trel. n. sp. type
- ✓2873. *Psychotria marginata* Sw.
- ✓2867. *Blakea gracilis longifolia* Cogn.

Additions and corrections to previous lists.

- 2169. *Hyptis mutabilis* (Rich.) Briq. (det. E. Epling)
- 2195. *Drymonia marmorata* Hook. (not *Centrosolenia costaricana*)
- 2261. *Dioclea guianensis* Benth. form
- 2381. *Miconia flaviflora* Gleason var. *emigrans* Gleason n. var. type
- 2457. *Miconia borealis* Gleason
- 2513. *Miconia dolichorrhyncha* Naud.
- 2538. *Hydrangea diplostemonia* (D. Sm.) Standl. (not H. Skutchii)
- 2570. *Ipomoea Purpusii* House New to Costa Rica
- 2589. *Guatteria aeruginosa* Standl.
- 2768. *Cymbocarpa refracta* Miers (not *Burmannia*)
- 2769. *Dictyostegia orobanchioides* (Hook.) Miers (not *Burmannia*)

Costa Rican plants collected by Alexander F. Skutch (143067)

Third Consignment. First report.

Pteridophyta identified by William R. Maxon, Gramineae by J. R. Swallen, Acanthaceae by E. C. Leonard, Passiflora by E. P. Killip, Pitcairnia by L. B. Smith, Labiatae in part by Carl Epling, Mosses by E. B. Bartram, Tournefortia by I. M. Johnston, the remainder by C. V. Morton.

-
- 2874. Hieronyma oblonga (Tul.) Muell. Arg. Genuine form, new to N. Amer.
 - 2875. Struthanthus costaricanus Standl.?
 - 2876. Ipomoea hederacea Jacq.
 - 2877. Dioscorea trifida L. f.
 - 2878. Teramnus uncinatus (L.) Sw.
 - 2879. Cassia tora L.
 - 2880. Cassia stenocarpoides (Britt.) Morton
 - 2881. Melochia melissaefolia Benth.
 - 2882. Kolobochilus leiorachis Lindau
 - 2883. Pseuderanthemum alatum (Nees) Radlk.
 - 2885. Micranthamnium minusculifolium C. M.
 - 2887. Trichomanes polypodioides L.
 - 2888. Syrrhopodon flavescens C. M.
 - 2890. Ardisia Skutchii Morton
 - 2891. Alsophila crassifolia Wercklé
 - 2892. Diplazium costaricanum C. Chr.
 - 2893. Commelina longicaulis Jacq.
 - 2894. " elegans HBK.
 - 2895. Inga confusa Britt. & Rose
 - 2896. Calopogonium galactoides (HBK.) Benth.
 - 2897. Dioclea guianensis Benth.
 - 2898. Salvia costaricensis Oerst.
 - 2899. Kohleria spicata (HBK.) Hanst.
 - 2900. Calliandra similis Sprague & Riley
 - 2901. Ruellia jussieuoides Schl.
 - 2903. Ficus costaricana (Liebm.) Miq.
 - 2904. Cyathula achyranthoides (HBK.) Moq.
 - 2905. Mimosa invisa Mart.
 - 2906. Odontonema callistachyum (C. & S.) Kuntze
 - 2907. Phyllanthus sp. aff. lathyroides HBK.
 - 2908. Microthamnium reptans (Sw.) Mitt.
 - 2909. Rhacopilum tomentosum (Sw.) Brid.
 - 2910. Stenochlaena latiuscula Maxon
 - 2911. Tinantia erecta (Jacq.) Schl. var.
 - 2912. Polypodium blandulum Christ
 - 2913. Adiantum concinnum H. & B.
 - 2914. Triumphetta Josephina Polak
 - 2915. Cyclanthera Tonduzii Cogn.
 - 2916. Maranta arundinacea L.
 - 2918. Hymenophyllum brevistipes Liebm.
 - 2919. Phytolacca rivinoides Kunth & Bouché

Sketch-2

- 2921. *Dryopteris curta* Christ. Previously known only from type collection.
- 2922. *Entodon Hampeanus* C. M.
- 2923. *Tradescantia geniculata* Jacq.
- 2924. *Rhacopilum tomentosum* (Sw.) Brid.
- 2925. *Desmodium distortum* (Aubl.)
- 2926. *Pavonia paniculata* Cav.
- 2927. *Castilleja communis* Benth.
- 2930. *Tovaria pendula* R. & P.
- 2931. *Physalis angulata* L.
- 2932. *Kolobochilus leiocrachis* Lindau
- 2933. *Mnium rostratum* Schrad.
- 2934. *Hyptis vilis* Kunth & Bouché
- 2935. *Tradescantia cumanensis* Kunth?
- 2936. *Loasa triphylla* Juss.
- 2939. *Salvia occidentalis* Sw.
- 2942. *Zornia diphylla* (L.) Pers.
- 2943. *Hyptis lantanaefolia* Poit.
- 2944. " *brachiata* Briq.
- 2945. *Desmodium cajanifolia* (HBK.) Kuntze
- 2946. *Aeschynomene brasiliensis* (Poir.) DC.
- 2947. *Eleocharis Pittieri* Boeckl.
- 2948. *Hyptis suaveolens* Poit.
- 2950. *Callicostella pallida* (Hornsch.) Jaeg.
- 2951. *Clitoria rubiginosa* Juss.
- 2952. *Dicranella subinclinata* Lor.
- 2953. *Banisteria obovata* Small
- 2954. *Polypodium crassifolium* L.
- 2955. *Aeschynomene americana* L.
- 2956. *Crotalaria guatemalensis* Benth.
- 2957. *Pithecellobium Standleyi* (B. & R.) Morton
- 2958. *Dryopteris illudens* Maxon & Morton
- 2959. *Diplazium velutinum* Maxon & Morton, sp. nov. type
- 2961. *Oleandra costaricensis* Maxon
- 2962. *Carludovica leucocarpa* Standl.?
- 2963. *Clusia flava* Tr. & Pl. New to North America
- 2964. *Cyathea divergens* Kunze
- 2965. *Rhus juglandifolia* HBK.
- 2966. *Asplenium serra* L. & F.
- 2968. *Chelonanthus acutangulus* (R. & P.) Gilg
- 2969. *Vittaria minima* (Baker) Benedict
- 2970. *Elaphoglossum proliferans* Maxon & Morton n. sp. type
- 2972. *Leptochilus Bradeorum* Ros.
- 2973. *Sabicea costaricensis* Wernh.
- 2974. *Phyllonoma ruscifolia* Willd.
- 2975. *Hypolepis rigescens* (Kunze) Fée
- 2977. *Cissampelos grandifolia* Tr. & Pl.
- 2978. *Asplenium falcinellum* Maxon
- 2979. *Solanum* n. sp.
- 2980. *Cassia* n. sp.
- 2981. *Solanum grossularia* Bitt.
- 2982. *Ipomoea* sp. nov.
- 2983. *Callisia monandra* (Sw.) Schult.

- 2984. *Ipomoea* sp. nov.
- 2985. *Hyptis mutabilis* (Rich.) Briq.
- 2986. *Cleome pilosa* Benth.
- 2987. *Solanum incomptum* Bitt.
- 2988. *Begonia involucrata* Liebm.
- 2990. *Phaseolus formosus* HBK. New to Costa Rica
- 2992. *Drymaria cordata* Willd.
- 2994. *Asplenium praemorsum* Sw.
- 2995. *Sisyrinchium micranthum* Cav.
- 2996. *Hemichlaena fruticosa* Benth. New to Costa Rica?
- 2998. *Centrosema pubescens* Benth.
- 2999. *Vigna vexillata* (L.) Rich.
- 3000. *Machaerium Seemannii* Benth.
- 3001. *Octoblepharum albidum* Hedw.
- 3003. *Tradescantia commelinoides* R. & S.
- 3004. *Stenandrium* n. sp. (Leonard mss.) type
- 3005. *Phaseolus leucanthus* Piper New to Costa Rica
- 3006. *Dorstenia choconiana* Wats.
- 3007. *Besleria chiapensis* Brandeg.
- 3008. *Begonia squamosa* C. DC.
- 3009. *Microthamnium minusculifolium* C. M.
- 3010. *Athyrium Bradeorum* (Ros.) Maxon & Morton
- 3011. *Hyptis pectinata* (L.) Poit.
- 3012. *Justicia* n. sp. (Leonard Mss.) type
- 3014. *Nectandra reticulata* (R. & P.) Mez
- 3015. *Polypodium Hombersleyi* Maxon
- 3018. *Polybotrya osmundacea* H. & B. sens lat.
- 3019. *Tetrapteris discolor* (Mey.) DC.
- 3021. *Dioscorea lepidia* Morton
- 3023. *Lepidopilum cubense* Sull.
- 3026. *Sida savannarum* Schum.
- 3028. *Triumfetta lappula* L.
- 3030. *Asclepias curassavica* L.
- 3031. *Dennstaedtia adiantoides* (H. & B.) Moore
- 3032. *Alloplectus elegantissimus* Morton, n. sp. type
- 3033. *Spathiphyllum Friedrichsthali* Schott
- 3034. *Drymaria villosa* C. & S.
- 3038. *Asplenium bissectum* Sw.
- 3042. *Trichomanes rigidum* Sw.
- 3043. *Rhipidopteris flabellata* (H. & B.) Fée
- 3048. *Psilogramme congesta* (Christ) Maxon
- 3049. *Eleocharis Pittieri* Boeckl.
- 3050. *Paesia anfractuosa* (Christ) C. Chr.
- 3051. *Metzlerella longiseta* (Hook.) Par.
- 3052. *Sphagnum meridense* (Hampe) C. M.
- 3053. *Pogonatum robustum* Mitt.
- 3054. *Polypodium asplenifolium* L. (A narrow form)
- 3056. *Asplenium radicans* L. var. *cyrtopterum* (Kunze)
- 3057. *Lycopodium complanatum* L. var.
- 3058. *Cupania fulvida* Tr. & Pl.?
- 3059. *Cuphea utriculosa* Koehe
- 3060. *Polypodium fallax* Cham. & Schl. (syn. *P. margaritifera* Christ)
- 3061. *Devilla Kunthii* St. Hil.
- 3062. *Nectandra sanguinea* Eottb.
- 3063. *Jacquemontia menispermoides* Choisy
- 3064. *Hyptis recurvata* Poit.

Sketch-4

- 3064. *Hyptis recurvata* Poit.
- 3065. *Panicum Rudgei* R. & S.
- 3066. *Hyptis pulegioides* Pohl
- 3067. *Marsypianthes Chamaedrys* (Vahl) Kuntze
- 3068. *Eragrostis maypurensis* (HBK.) Steud.
- 3069. *Andropogon brevifolius* Sw.
- 3070. *Chelonanthus alatus* (Aubl.) Standl.
- 3071. *Crotalaria pterocaulon* Desv.
- 3072. " *sagittalis* L.
- 3073. *Orthoclada laxa* (Rich.) Beauv.
- 3074. *Calopogonium mucunoides* Desv.
- 3076. *Anthurium obtusilobum* Schott
- 3077. *Trichomanes ludovicinum* Rosenst.
- 3078. " *Galeottii* Fourn. (A single immature plant)
- 3079. " *Ankersii* Parker
- 3080. *Xylosma intermedia* (Tr. & Pl.) Griseb.
- 3081. *Blechnum laxiflorum* Juss.
- 3082. *Tetrapteris Schiedeana* C. & S.
- 3083. *Buettneria catalpaefolia* Jacq.
- 3084. *Leptochilus serratifolius* (Mert.) C. Chr. New to N. America
- 3085. *Mollinedia Pinchotiana* Perk.
- 3086. *Phaseolus pilosus* HBK. New to Costa Rica.
- 3087. *Centrosema pubescens* Benth.
- 3088. *Scutellaria glabra* Leonard
- 3089. *Sanicula liberta* C. & S.
- 3090. *Dicliptera Ehrenbergii* Lindau
- 3091. *Chusquea virgata* Hack.
- 3092. *Trichilia oaxacana* Blake? New to Costa Rica
- 3093. *Plantago hirtella* HBK.
- 3095. *Senatophyllum loxense* (Hook.) Mitt.
- 3096. *Desmodium campylocladus* Hemsl.
- 3097. *Croton draco* var. *rhombifolius* Muell. Arg.
- 3099. *Abutilon discussum* Schl.
- 3100. *Tournefortia glabra* L.
- 3102. *Lamoureauxia lanceolata* Benth.
- 3103. *Stemodia peduncularis* Benth.
- 3105. *Pitcairnia heterophylla* (Lindl.) Beer
- 3107. *Serjania rhombea* Radlk.
- 3108. *Arundinella Deppeana* Nees
- 3110. *Hibiscus bifurcatus* Cav.
- 3113. *Dryopteris onusta* Maxon & Morton n. sp. type
- 3115. *Passiflora biflora* Lam.

Addition to previous lists.

- 2758. *Banisteria obovata* Small

Costa Rican Plants, collected by A. F. Skutch
Third Consignment; Second Report

W. H. M. AUG 16 1937

Melastomaceae identified by H. A. Gleason, Compositae by S. F. Blake,
Rubiaceae by P. C. Standley, Piperaceae by W. Trelease, Orchidaceae
by C. Schweinfurth, Cavendishia by A. C. Smith, Myristicaceae by A. C.
Smith, Verbenaceae by H. Moldenke, the remainder by C. V. Morton.
July, 1937

2884. *Tagetes filifolia* Lag.
2886. *Miconia flaviflora* var. *emigrans* Gl.
2889. *Jaegeria hirta* (Lag.) Less.
2902. *Manettia stenophylla* D. Sm.
2917. *Psychotria crebrinervia* Standl.
2920. *Piper nemori-marginis* Trel. n. sp. type
2928. *Habenaria monorrhiza* Rohb. f.
2929. *Tournefortia hirsutissima* L.
2937. *Bidens squarrosa* H. B.K.
2938. *Piper pustulicaule* Trel. n. sp. type
2940. *Monochaetum rivulare* Maud.
2949. *Bidens cynapiifolia* H.B.K.
2967. *Piper uniauriculatum* Trel. n. sp. type
2971. *Piper deductum* Trel. n. sp. type
2989. *Conostegia Pittieri* Cogn.
2991. *Cavendishia confertiflora* A. C. Smith n. sp. type
2993. *Piper subdunum* Trel. n. sp. type
2997. *Baccharis splendens* Heering
3013. *Psychotria macrophylla* R. & P.
3016. *Miconia* sp.
3017. *Eupatorium* sp.
3022. *Peperomia tecticola* Trel.
3025. *Topobea Durandiana* Cogn.
3027. *Pseudelephantopus spicatus* (Juss.) Rohr.
3029. *Elephantopus hypomalacus* Blake
3036. *Dialyanthera otoba* (H. & B.) Warb.
3039. *Cephaelis axillaris* Sw.
3040. *Symbolanthus pulcherrimus* Gilg
3041. *Eupatorium* sp.
3044. *Peperomia lati-ovata* Trel.
3045. *Eupatorium* sp.
3047. *Peperomia sphagnicola* Trel. n. sp. type
3055. *Coussarea paniculata* (Vahl) Standl.
3075. *Piper longipetiolatum* Trel.
3094. *Lantana hispida* H.B.K.
3098. *Citharexylum Donnell-Smithii* Greenm.
3101. *Leandra costaricensis* Cogn.
3104. *Piper pseudolanceaefolium* Trel.
~~3109. *Piper pseudolanceaefolium* Trel.~~
3109. *Adelobotrys adscendens* (Sw.) Triana
3111. *Piper sublineatum* Trel.
3112. *Cephaelis Pittieri* Krause
3114. *Miconia Killipii* Gl. First record from N. America.

Addition to previous lists

2449. *Psychotria involucrata* Sw.

Gray Herb.
+
Cen. Arb.

Costa Rican plants collected by A. F. Skutch
Fourth Consignment, 1st report

checked
list + index
II 28
A B

Pteridophyta identified by William R. Maxon, Gramineae by Agnes Chase, Acanthaceae by E. C. Leonard, the remainder by C. V. Morton, U. S. National Museum, December 1937

Not found
at A. F.!

- ✓ 3117. *Persea caerulea* Mez
- ✓ 3118. *Virola sebifera* Aubl.
- ✓ 3120. *Cyperus niger* R. & P.
- ✓ 3121. *Sibthorpia pichinchensis* H.B.K.
- ✓ 3122. *Hyptis capitata* Jacq.
- ✓ 3123. *Solanum evolvulifolium* Greenm.
- ✓ 3125. *Phyllanthus lathyroides* H.B.K.
- ✓ 3127. *Asplenium auritum* Sw. var.
- ✓ 3129. *Besleria triflora* (Oerst.) Hanst.
- ✓ 3131. *Siparuna Tonduziana* Perk.
- ✓ 3132. *Rhipidopteris peltata* (Sw.) Schott
- ✓ 3133. *Asplenium conquisitum* Underw. & Maxon
- ✓ 3135. *Trichomanes radicans* var. *Kunzeanum* (Hook.) Hieron.
- ✓ 3138. *Ichnanthus nemorosus* (Sw.) Doell.
- ✓ 3139. *Polypodium sphenodes* Kunze
- ✓ 3140. *Asplenium radicans* L.
- ✓ 3145. *Isachne arundinacea* (Sw.) Griseb.
- ✓ 3146. *Begonia estrellensis* C. DC.
- ✓ 3148. *Lasiacis divaricata* (L.) Hitchc.
- ✓ 3149. *Struthanthus marginatus* (Desr.) Blume
- ✓ 3150. *Sanicula liberta* C. & S.
- ✓ 3156. *Polypodium lycopodioides* var. *salicinum* (Wikstr.)
- ✓ 3159. *Solanum grossularia* Bitt.
- ✓ 3160. *Habracanthus sylvaticus* Nees
- ✓ 3162. *Rhynchospora Schiedeana* Kunth
- ✓ 3164. *Lobelia urticaefolia* Wimm.
- ✓ 3166. *Solanum trizygum* Bitt.
- ✓ 3167. " *ciliatum* Lam.
- ✓ 3168. *Tropaeolum bimaculatum* Kl.
- ✓ 3173. *Hymenophyllum Lehmannii* Hieron.
- ✓ 3174. *Siparuna grisea* Perk.?
- ✓ 3175. *Cordia ferruginea* R. & P.
- ✓ 3177. *Solanum phaseoloides* Polak.
- ✓ 3178. *Alternanthera microcephala* (Moq.) Standl.
- ✓ 3179. *Capsicum* n. sp.?
- ✓ 3187. *Ichnanthus nemorosus* (Sw.) Doell.
- ✓ 3188. *Saracha procumbens* (Cav.) R. & P.
- ✓ 3189. *Elaphoglossum eximium* (Mett.) Christ
- ✓ 3192. *Viola stipularis* Sw.
- ✓ 3193. *Alchemilla sibbaldiifolia* var. *Tonduzii* (Damm.) Perry
- ✓ 3194. *Cuphea carthaginensis* (Jacq.) Macbr.

- ✓ 3195. *Cardamine flaccida* C. & S.
- ✓ 3196. *Hydrocotyle umbellata* L.
- ✓ 3197. " *leucocephala* C. & S.
- 3199. *Rubus Alexandri* Morton n. sp. type
- ✓ 3199 1/2. *Rubus Skutchii* Morton, n. sp. type
- ✓ 3200. *Cephaelis elata* Sw.
- ✓ 3203. *Asplenium plumbenum* Christ?
- ✓ 3207. *Hypericum uliginosum* H.B.K.
- ✓ 3208. *Torenia Thouarsii* (C. & S.) Kuntze
- ✓ 3209. *Sisyrinchium micranthum* Cav.
- ✓ 3212. *Polypodium duale* Maxon
- ✓ 3215. *Columnnea microcalyx* Hanst.
- ✓ 3220. *Polygonum punctatum* Ell.
- ✓ 3222. *Solanum hispidum* Pers.
- ✓ 3225. *Fuchsia minutiflora* Hemsl.
- ✓ 3229. *Polypodium induens* Maxon
- 3232. *Lycopodium elegantulum* Maxon n. sp. type
- ✓ 3233. *Nertera depressa* Banks
- ✓ 3236. *Polybotrya* sp. nov.?
- ✓ 3241. *Psittacanthus americanus* (L.) Mart.
- ✓ 3243. *Merinthopodium neuranthum* (Hemsl.) D. Sm.
- ✓ 3248. *Ranunculus flagelliformis* Smith
- ✓ 3249. *Ranunculus repens* L.
- ✓ 3250. *Vismia guianensis* (Aubl.) Pers.
- ✓ 3252. *Cissus Martiniana* Woods. & Seib.
- ✓ 3253. *Myrcia costaricensis* Berg
- ✓ 3256. *Solanum* ~~efr.~~ *Edwardii* Standl.
- ✓ 3257. *Browallia americana* L.
- ✓ 3262. *Hemitelia arachnoidea* (Underw.) Maxon
- 3263. *Scutellaria costaricana* Wendl.
- ✓ 3264. *Hydrocotyle mexicana* C. & R.
- ✓ 3266. *Malvaviscus* sp.
- ✓ 3267. *Aphelandra repanda* Nees
- ✓ 3268. *Trichomanes montanum* Hook.
- ✓ 3271. *Besleria princeps* Hanst.
- ✓ 3272. *Trichomanes capillaceum* L.
- ✓ 3274. *Dryopteris atrogrisea* C. Chr.
- ✓ 3275. *Diplazium urticaefolium* Christ
- 3276. *Dryopteris equitans* (Christ) C. Chr.
- ✓ 3278. *Dryopteris equitans* (Christ) C. Chr.
- ✓ 3280. *Solanum triste* Jacq.?
- ✓ 3285. *Asplenium bissectum* Sw.
- ✓ 3286. *Solanum nudum* H.B.K.
- ✓ 3287. *Clusia palmana* Standl. ex char.
- ✓ 3288. *Cissus biformifolia* Standl.
- ✓ 3289. *Oreopanax Oerstedianum* March.
- ✓ 3295. *Heloperone macrantha* (Oerst.) Benth.
- ✓ 3298. *Polypodium sectifrons* Kunze
- ✓ 3299. *Weinmannia pinnata* L.
- ✓ 3302. *Prunus annularis* Koehne
- 3307. *Saurauia Pittieri* D. Sm.
- ✓ 3309. *Jacobinia aurea* Hemsl.
- ✓ 3311. *Solanum (Lycianthes) multiflorum* (Bitt.)
- ✓ 3313. *Capsicum macrophyllum* (H.B.K.) Standl.?

Skutch-3

- ✓3315. *Inga luculenta* Morton, n. sp. type
- ✓3321. *Lycopodium clavatum* L. var.
- ✓3322. *Cochlidium rostratum* (Hook.) Maxon
- ✓3324. *Schlegelia* sp.
- ✓3325. *Spathacanthus Hoffmanni* Lindau
- ✓3326. *Razisea spicata* Oerst.
- ✓3329. *Razisea spicata* Oerst.
- ✓3331. *Didymochlaena truncatula* (Sw.) J. Sm.
- ✓3334. *Polypodium fraxinifolium* Jacq.
- ✓3335. *Capsicum* n. sp.?
- ✓3336. *Tradescantia commelinoides* R. & S.
- ✓3338. *Pleuropetalum Sprucei* (Hook. f.) Standl.
- ✓3339. *Hydrangea epiphytica* Morton, n. sp. type
- ✓3340. *Marcgravia rectiflora* Tr. & Pl.
- ✓3341. *Muhlenbergia tamnifolia* (H.B.K.) Meisn. var.
- ✓3342. *Hydrangea epiphytica* Morton, sp. nov
- ✓3343. *Solanum Connell-Smithii* Coult.
- ✓3344. *Cleome pilosa* var.
- ✓3345. *Drymaria villosa* C. & S.
- ✓3346. *Heliocarpus rudis* E. E. Wats.
- ✓3347. *Stemodia peduncularis* Benth.
- ✓3348. *Ilex lamprophylla* Standl.
- ✓3351. *Markea leucantha* D. Sm.
- ✓3355. *Markea* n. sp.?
- ✓3356. *Prunella vulgaris* L.
- ✓3360. *Drymonia scandens* Morton, sp. nov. type
- ✓3362. *Gilibertea arborea* (L.) March. var.
- ✓3363. *Columnnea Warscewicziana* Kl. & Hanst.
- ✓3366. *Struthiopteris Werckleana* (Christ) Broadh.
- ✓3367. *Polypodium falcoideum* Kuhn
- ✓3368. *Loasa triphylla* Juss.
- ✓3371. *Selaginella estrellensis* Hieron.
- ✓3374. *Triumfetta semitriloba* Jacq.
- ✓3376. *Polypodium jungermannioides* Kl.
- 3379. " *fucoides* Christ
- ✓3380. *Polypodium ursipes* Moritz
- ✓3381. *Gaiodendron poasense* D. Sm.
- 3383. *Polypodium leucosticton* Kunze var.
- ✓3384. *Sapium pachystachys* Schum. & Pitt.

Additions and corrections to previous lists

- 2256. *Cissus brevipes* Morton & Standl. n. sp. type (in Standl. Fl. Costa Rica 2: 653. 1937). Not *C. biformifolia*.
- 2381. *Skutchia caudata* Pax & Hoffm. = *Trophis chorizantha* Standl.
- 2609. *Mollinedia discrepans* Morton, n. sp. (not *M. Pinchotiana*)
- 2628. " " " " " "
- 3085. " " " " " "
- 2806. *Eugenia Skutchii* Morton & Standl. n. sp. type (in Standl. Fl. Costa Rica 2: 774. 1937)
- ✓2976. *Maxillaria variabilis* Batem. det. C. Schweinfurth
- 2386. *Skutchia caudata* = *Trophis chorizantha* Standl.

These added to the

Sketch plants.
Determinations lacking at the Gray Herbarium

W. R. M. APR 8 - 1938

- ✓2884 *Tagetes filifolia* Lag. det. Blake
- ✓2886 *Miconia flaviflora* var. *emigrans* Gl. det. Gleason
- ✓2889 *Jaegeria hirta* (Lag.) Less. det. Blake
- ✓2902 *Manettia stenophylla* D. Sm. det. Standley
- ✓2917 *Psychotria crebrinervia* Standl. det. Standley
- ✓2920 *Pip^{er}~~a~~ nemori-marginis* Trel. n. sp. type det. Trelease
- ✓2928 *Habenaria monorrhiza* Rehb. f. det. Schweinfurth
- ✓2929 *Tournefortia hirsutissima* L. det. Killip
- ✓2937 *Bidens squarrosa* H.B.K. det. Blake
- ✓2938 *Pip^{er}~~a~~ pustulicaule* Trel. n. sp. type det. Trelease
- ✓2940 *Monochaetum rivulare* Naud. det. Gleason
- ✓2949 *Bidens cynapiifolia* H.B.K. det. Blake
- ✓2967 *Pip^{er}~~a~~ uniauriculatum* Trel. n. sp. type det. Trelease
- ✓2971 *Pip^{er}~~a~~ deductum* Trel. n. sp. type det. Trelease
- ✓2989 *Conostegia Pittieri* Cogn. det. Gleason
- ✓2991 *Cavendishia confertiflora* A. C. Sm. n. sp. type det. A.C. Smith
- ✓2993 *Pip^{er}~~a~~ subdorum* Trel. n. sp. type det. Trelease
- ✓2994 *Asplenium praemorsum* Sw. det. Maxon
- ✓2997 *Baccharis splendens* Heering det. Blake
- ✓3013 ~~*Tradescantia correllioides* B. & S.~~ *Psychotria macrophylla* R. & P. det. Standl.
- ✓3016 ~~*Burstonia chacoensis* Wats.~~ *Miconia* sp. det. Gleason
- ✓3017 *Eupatorium* sp. det. Blake
- ✓3022 *Peperomia tecticola* Trel. det. Trelease
- ✓3025 *Topobea Durandiana* Cogn. det. Gleason
- ✓3027 *Pseudelephantopus spicatus* (Juss.) Rohr. det. Blake
- ✓3029 *Elephantopus hypomalacus* Blake det. Blake
- ✓3036 *Dialyanth^{us}~~a~~ otoba* (H. & B.) Warb. det. A.C. Smith
- ✓3039 *Cephaelis axillaris* Sw. det. Standley
- ✓3040 *Symbolanthus pulcherrimus* Gilg. det. Morton
- ✓3041 *Eupatorium* sp. det. Blake

(over)

- ✓3044 *Peperomia lati-ovata* Trel. det. Trelease
- ✓3045 *Eupatorium* sp. det. Blake
- ✓3047 *Peperomia sphaenicola* Trel. n. sp. type det. Trelease
- ✓3055 *Conssarea paniculata*. (Vahl) Standl. det. Standley
- ✓3075 ^{Er}*Pip*~~A~~ *longipetiolatum* Trel. det. Trelease
- ✓3094 *Lantana hispida* H.B.K. det. Moldenke
- ✓3098 *Citharexylum Donnell-Smithii* Greenm. det. Moldenke
- ✓3101 *Leandra costaricensis* Cogn. det. Gleason
- ✓3104 ^{Er}*Pip*~~A~~ *pseudolanceaefolium* Trel. det. Trelease
- ✓3106 *Selaginella* ✕
- ✓3109 *Adelobotrys adscendens* (Sw.) Triana det. Gleason
- ✓3111 ^{Er}*Pip*~~A~~ *sublineatum* Trel. det. Trelease
- ✓3112 *Cephaelis Pittieri* Krause det. Standley
- ✓3114 *Miconia Killipii* Gl. First record from N. Amer. det. Gleason
- ✓3116 *Machaerium biovulatum* Micheli det. Morton

O. Fernald,
Nicotiana glauca this
with Am. Arb.?

W.R.M. 1111-1932

7/1/38

Am

Costa Rican plants collected by Alexander F. Skutch

4th consignment, second report

Compositae identified by S. F. Blake; Orchidaceae by Oakes Ames
and C. Schweinfurth; Rubiaceae by P. C. Standley; Piperaceae
by William Trel. release; Melastomaceae by H. A. Gleason; mosses
by E. B. Bartram; Urticaceae by E. P. Killip; and Selaginella
by A. H. G. Alston.

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3124. *Alomia microcarpa* (Benth.) Rob.
3126. *Stelis Skutchii* Ames n. sp. (Type)
3128. *Eupatorium* sp.
3130. *Palicourea macrosepala* Krause
3134. *Pleurothallis ruscifolia* R. Br.
3136. *Hoffmannia longipetiolata* Polak?
3137. *Psychotria graciliflora* Benth.
3142. *Piper pseudolanceaefolium* Trel.
3143. *Pilea parietaria* (L.) Blume
3144. *Centradenia inaequilateralis* G. Don
3151. *Sarcorrhachis naranjoana* Trel.
3152. *Palicourea lasiorrhachis* Oerst.
3153. *Gonzalagunia panamensis* (Cav.) Schum.
3154. *Clidemia Mortoniana* Standl. n. sp. (Type)
3155. *Eupatorium Billbergianum* Beurl.
3170. *Pleurothallis costaricensis* Rolfe
3171. *Masdevallia nidifica* Rehb. f.
3172. *Macromitrium Tonduzii* Ren. & Card.
3176. *Mikania cristata* Rob.
3180. *Peperomia tenellaeformis* Trel.
3181. *Microthamnium Lehmannii* Besch.
3182. Mostly Hepaticae mixed with *Microthamnium reptans* (Sw.) Mitt.
3183. *Sematophyllum loxense* (Hook.) Mitt.
3184. " " " "
3185. *Thamniopsis pendula* (Hook.) Fleisch.
3186. *Pilea auriculata* Liebm.
3190. *Selaginella porphyrospora* A. Br.
3191. *Peperomia varablancana* Trel. n. sp. (Type)
3201. *Microthamnium Langsdorffii* (Hook.) Mitt.
3202. *Ravnia triflora* Oerst.
3204. *Eupatorium Pittieri* Klatt
3205. *Piper vara-blancanum* Trel. n. sp. (Type)
3206. *Rondeletia buddleoides* Benth.
3210. *Borreria ocimoides* (Burm.) DC.
3213. *Vittaria* sp.
3214. *Hoffmannia leucocarpa* Standl.
3221. *Eupatorium anisochromum* Klatt
3223. *Guettarda crispiflora* Vahl
3224. *Conostegia rhodopetala* D. Sm.

- 3226. *Epidendrum exasperatum* Rchb. f.
- 3227. *Eupatroium arthrodes* Rob.
- 3237. *Rhaphidorrhynchium Lindigii* (Hampe) Brotherus
- 3238. *Hookeriopsis variabilis* (Hornsch.) Jaeg.
- 3239. *Galinsoga urticaefolia* (HBK.) Benth. (form)
- 3242. *Eupatorium parasiticum* Klatt (ex char.)
- 3251. *Ornithidium fulgens* Rchb. f.
- 3253 1/2 *Telipogon Endresianus* Kraenzl.
- 3260. *Clibadium anceps* Greenm.
- 3261. *Xerococcus congestus* Oerst.
- 3265. *Epidendrum platystigma* Rchb. f.
- 3269. *Psychotria costaricensis* Polak.
- 3273. *Miconia incurva* Gleason n. sp. (Type)
- 3282. *Psychotria sylvivaga* Standl.?
- 3284. *Centronia phlomoides* Triana
- 3290. *Pleurothallis lanceola* Spr. New to C. Amer.
- 3292. *Polytrichum antillarum* Rich.
- 3293. *Rhaphidorrhynchium Lindigii* (Hampe) Brotherus
- 3294. *Polytrichum antillarum* Rich.
- 3300. *Palicourea subrubra* Polak.
- 3303. *Spilanthus americana* f. *parvifolia* (Benth.) A. H. Moore
- 3304. *Manettia flexilis* Prandeg.
- 3305. *Momina sylvatica* S. & C. det. Blake
- 3310. *Peperomia substriata* C. DC.
- 3312. *Eupatorium Pittieri* Klatt
- 3318. *Blakea* sp.
- 3319. *Leandra melanodesma* (Naud.) Cogn.
- 3320. *Clibadium leiocarpum* var. *strigosum* Blake
- 3323. *Epidendrum anoglossum* Schltr.
- 3330. *Psychotria sarapiquensis* Standl. n. sp. (Type)
- 3349. *Phenax rugosus* (Poir.) Wedd.
- 3350. *Monochaetum rivulare* Naud.
- 3352. *Bidens squarrosa* HBK.
- 3353. *Maxillaria microphyton* Schltr.
- 3354. *Camaridium Biolleyi* Schltr.
- 3357. *Fuchsia arborescens* Sims det. Standl.
- 3359. *Rondeletia Torresii* Standl.
- 3361. *Eupatorium sexangulare* (Klatt.) Rob.
- 3365. *Piper carilloanum* C. DC.
- 3369. *Peperomia miscitecla* Trel. n. sp. (Type)
- 3370. *Epidendrum mirabile* Ames & Schweinf.
- 3375. *Selaginella porphyrospora* A. Br.
- 3377. *Epidendrum muscicola* Schltr.
- 3378. *Stelis pardipes* Rchb. f.
- 3385. *Pleurothallis monstrabile* Ames
- 3386. *Oncidium bracteatum* Rchb. f.

2297. *Dicliptera pallida* Leonard (not D. acuminata)
2574. *Blechum costaricense* Oerst. (syn. B. ruellioides Leonard ined.)
2649. *Saracha procumbens* (Cav.) R. & P. (syn. S. Rothii Morton ined.)
2825. *Stelis planipetala* Ames, n. sp. Type
2882. *Razisea spicata* Oerst. (not Kolobochilus leiorachis)
det. Leonard
2883. *Pseuderanthemum cuspidatum* (Nees) Radlk. (not P. alatum)
det. Leonard
2906. *Odontonema strictum* (Nees.) Ktze. (not O. callistachyum)
det. Leonard
2932. *Razisea spicata* Oerst. (not Kolobochilus leiorachis)
det. Leonard
3004. *Aphelandra Tonduzii* Leonard (not Stenandrium)
3007. *Besleria laxiflora* Benth. (syn. B. chiapensis Brandeg.)
det. Leonard
3016. *Miconia prasina* (Sw.) DC. det. Gleason
3081. *Blechum costaricense* Oerst. (not B. laxiflorum Juss.)
det. Leonard
3090. *Dicliptera Skutchii* Leonard n. sp. Type (not D. Ehrenbergii)
3295. *Poikilacanthus macranthus* Lindau (not Deloperone macrantha (Oerst.) Benth.)
Benth.)

no = det. entered in Kew nos. at AA
May 1940

W.R.M. SEP 10 1939

Costa Rican plants collected by A. F. Skutch
5th, 6th, and 7th consignments, First Report

Pteridophyta identified by William R. Maxon; Compositae by S. F. Blake,
Acanthaceae by E. C. Leonard, Passiflora and Urticaceae by E. P.
Killip, Apocynaceae by R. E. Woodson, Verbenaceae by H. N. Moldenke,
Ericaceae and Araliaceae by A. C. Smith, Bromeliaceae by L. B.
Smith, Labiatae by C. Epling, Melastomaceae by H. A. Gleason,
Piperaceae by W. Trelease, Desmodium by B. Schubert, the remainder
by C. V. Morton, U. S. National Museum, September 1939.
Orchidaceae by C. S. Schweinfurth.

- 3391. *Miconia theaezans* (Bonpl.) Cogn.
- 3392. *Drymonia rubra* Morton
- ~~3393. *Hydrangea*~~
- 3394. *Miconia cremadena* Gleason, n. sp.
- 3396. *Columnnea lepidocaula* Hanst.
- 3397. *Paspalum candidum* (H. & B.) Kunth
- 3401. *Equisetum bogotense* HBK.
- 3403. *Hydrocotyle pusilla* A. Rich.
- 3404. *Glockeria ventricosa* Donn. Smith.
- 3405. *Begonia alnifolia* A. DC.
- 3406. *Cupania grandiflora* Morton
- 3407. *Campana Oerstedii* Kl.
- 3409. *Epidendrum Laucheanum* Rolfe ex Bonhof
- 3410. *Satyria Warscewiczii* Kl.
- 3411. *Camaridium nutantiflorum* Schltr.
- 3412. *Centropogon solanifolius* Benth.
- 3414. *Begonia* sp.
- 3418. *Cranichis diphylla* Sw. (syn. *C. guatemalensis* Schltr.)
- 3419. *Epidendrum Endresii* Rchb. f.
- 3420. *Piper nervo-excurrens* Trel., n. sp. type
- 3421. *Polypodium* sp. nov.
- 3422. " " "
- 3423. *Asplenium harpeodes* Kunze
- 3424. *Dryopteris Hemsleyana* (Baker) C. Chr.
- 3425. *Peperomia lateriflora* Trel.
- 3426. *Dryopteris denticulata* (Sw.) Kuntze (small form)
- 3427. *Cheiroglossa palmata* (L.) Presl
- 3432. *Sambucus oreopola* Donn. Sm.
- 3433. *Geranium mexicanum* HBK.
- 3434. *Zinowiewia costaricensis* Lundell
- 3436. *Spherospermum cordifolium* Benth.
- 3437. *Disterigma Humboldtii* (Kl.) Ndzu.
- 3438. *Peperomia medio-montis* Trel., n. sp. type
- 3441. *Norantea subsessilis* Donn. Sm.
- 3448. *Justicia Valerii* Leonard
- 3449. *Ichnanthus pallens* (Sw.) Munro
- 3450. *Begonia glabra* Aubl.
- 3451. *Columnnea Warszewicziana* (Kl.) Hanst.
- 3452. *Salvia alvajaca* Oerst.

- 3453. *Elleanthus glaucophyllus* Schltr.
- 3454. *Peperomia recepta* Trel., n. sp. type
- 3457. *Justicia costaricana* Leonard
- 3458. *Columnnea purpurata* Hanst.
- 3459. *Polytaenium Dussianum* Bened. aff.
- 3460. *Ardisia compressa* HBK.
- 3461. *Pleurothallis grandis* Rolfe
- 3463. *Trichomanes polypodioides* L.
- 3465. *Asplenium harpeodes* Kunze
- 3466. *Columnnea verecunda* Morton, n. sp. type
- 3468. *Polypodium plebeium* Schl. & Cham.
- 3469. " *myriolepis* Christ
- 3471. *Paspalum candidum* (H. & B.) Kunth
- 3472. *Oxalis corniculata* L.
- 3474. *Stachys costaricensis* Briq.
- 3477. *Solanum roblense* Bitter
- 3479. *Eurya Seemanniana* Pittier
- 3480. *Axinaea costaricensis* Cogn.
- 3481. *Utricularia verapazensis* Morong
- 3482. *Viburnum venustum* Morton
- 3484. *Begonia alnifolia* A. DC.
- 3485. *Piper decurrens* C. DC.
- 3489. *Begonia alnifolia* A. DC.
- 3492. *Centropogon nutans* Pl. & Oerst.
- 3495. *Panicum boliviense* Hack.
- 3497. *Begonia Valerii* Standl.
- 3498. " " "
- 3499. *Hyptis mutabilis* (Rich.) Briq.
- 3501. *Diplazium Werckleanum* Christ
- 3504. *Saurauia pseudorubiformis* Busc.
- 3509. *Maxillaria Brenesii* Schltr.
- 3511. *Bilizia columbiana* Pl. & Lind.
- 3513. *Polypodium montigenum* Maxon
- 3514. *Dicranopteris bifida* (Willd.) Maxon, sens. lat.
- 3515. " *costaricensis* Underw.
- 3517. *Odontosoria gymnogrammoides* Christ
- 3519. *Paesia anfractuosa* (Christ) C. Chr.
- 3520. *Dicranopteris retroflexa* (Christ) Underw.
- 3522. *Trichomanes eximium* Kunze
- 3523. *Epidendrum pygmaeum* Hook.
- 3525. " *incomptum* Rchb. f.
- 3526. " " " "
- 3528. *Miconia Pittieri* Cogn.
- 3529. " *glaberrima* (Schl.) Naud.
- 3530. *Alloplectus ichthyoderma* Hanst.
- 3531. *Oxalis vulcanicola* Donn. Smith
- 3533. *Calceolaria mexicana* Benth.
- 3534. *Piper irazuanum* C. DC.
- 3535. *Besleria barbensis* Hanst.
- 3536. *Dicliptera iopus* Lindau
- 3537. *Trichomanes radicans* var. *Kunzeanum* (Hook.) Hieron.
- 3538. *Ardisia glanduloso-marginata* Oerst.
- 3539. *Polypodium angustifolium* Sw.
- 3540. *Asplenium conquisitum* Und. & Maxon
- 3541. *Valeriana Candolleana* Gardn.
- 3543. *Salvia compacta* Kuntze

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- 3545. *Castilleja communis* Benth.
- 3546. *Guarea Tonduzii* C. DC. (First flowering material collected)
- 3547. *Kohleria spicata* (HBK.) Oerst.
- 3548. *Calceolaria mexicana* Benth.
- 3549. *Mauria biringo* Tull.
- 3551. *Epidendrum exile* Ames
- 3552. *Capsicum Standleyanum* Morton
- 3553. *Drymonia lanceolata* (Hanst.) Morton
- 3554. *Columnea Oerstediana* Hanst.
- 3558. *Guzmania nicaraguensis* Mez. and C. F. Baker
- 3560. *Dryopteris chiriquana* C. Chr.
- 3561. " *patula* (Sw.) Underw.
- 3566. *Hydrocotyle leucocephala* C. & S.
- 3567. *Sida rhombifolia* L.
- 3572. *Anagallis punila* Swartz
- 3574. *Capsicum consanguineum* Morton, n. sp. type
- 3575. *Dryopteris atrovirens* C. Chr.
- 3576. *Hymenophyllum asplenoides* Sw.
- 3577. *Glockeria stricta* Leonard
- 3578. *Pteris altissima* Poir.
- 3579. *Besleria formosa* Morton
- 3580. *Solanum longiconicum* Bitter.
- 3581. *Miconia theaeans* (Bonpl.) Cogn.
- 3582. *Cestrum Warscewiczii* Klotzsch
- 3583. *Didymopanax Pittieri* March.
- 3586. *Vittaria Gardneriana* Fée
- 3588. *Euonymus costaricensis* Standl.
- 3590. *Piper strigillimum* Trel., n. sp. type
- 3594. *Piper stylamentum* Trel., n. sp. type
- 3596. *Capsicum Standleyanum* Morton, n. sp. type
- 3600. *Hypolepis nuda* Mett.
- 3601. *Dryopteris atrogrisea* C. Chr.
- 3604. *Struthiopteris Maxonii* Broadh.
- 3605. *Piper oblique-truncatum* Trel., n. sp. type
- 3608. *Alloplectus tetragonus* (Oerst.) Hanst.
- 3609. *Piper glabratinerve* Trel., n. sp. type
- 3612. *Peperomia aperte-ramosa* Trel., n. sp. type
- 3614. *Solanum trizygum* Bitter
- 3616. *Microtropis occidentalis* Loes.
- 3617. *Drymonia conchocalyx* Hanst.
- 3618. *Capsicum Standleyanum* Morton
- 3620. *Markea leucantha* Donn. Sm.
- 3621. *Guarea rhopalocarpa* Radlk. (1st flowering material collected)
- 3623. *Dioscorea lepida* Morton
- 3624. *Asplenium* sp.
- 3625. *Piper rubidispicum* Trel., n. sp. type
- 3626. *Cavendishia quereme* (HBK.) B. & H.
- 3628. *Peperomia Tonduzii* C. DC.
- 3629. " *duplicornis* Trel., n. sp. type
- 3630. " *barba-poasana* Trel., n. sp. type
- 3631. *Psammisia ramiflora* Kl.
- 3633. *Adiantum tetraphyllum* H. & B.
- 3634. *Asplenium Solmsii* Baker
- 3635. *Piper placens* Trel., n. sp. type
- 3636. *Pteris* sp. nov.
- 3638. *Polypodium trifurcatum* L.

- 3641. *Pennisetum bambusiforme* (Fourn.) Hemsl.
- 3643. *Pleurothallis compacta* Ames & Schweinf.
- 3647. *Axonopus compressus* (Sw.) Beauv.
- 3648. *Sporobolus Poiratii* (R. & S.) Hitchc.
- 3649. *Peperomia triplamenta* Trel., n. sp. type
- 3653. *Melinis minutiflora* Beauv.
- 3654. *Lozania montana* Standl.
- 3656. *Histiopteris incisa* (Thunb.) J. Sm.
- 3659. *Isachne arundinacea* (Sw.) Griseb.
- 3660. *Piper sulcinervosum* Trel.
- 3661. *Peperomia pachyclada* Trel., n. sp. type
- 3663. *Pennisetum clandestinum* Chiov.
- 3664. *Burmeistera cyclostigmata* D. Sm.
- 3666. *Pleurothallis lancilabris* var. *oxyglossa* (Schltr.) Schweinf.
- 3668. *Lepanthes blepharistes* Rchb. f.
- 3670. *Ipomoea tiliacea* (Willd.) Choisy
- 3672. " " " "
- 3673. *Piper callisiaeaeale* Trel., n. sp. type
- 3674. *Lasiacis Standleyi* Hitchc.
- 3675. *Peperomia martagonifolia* C. DC.
- 3676. *Piper difficile* Trel., n. sp., type
- 3677. *Lycopodium tubulosum* Maxon
- 3677 1/2. " *linifolium* L.
- 3678. *Peperomia ciliifera* Trel.
- 3680. *Lasiacis Standleyi* Hitchc.
- 3682. *Stenochlaena Maxonii* Und.?
- 3683. *Meliosma glabrata* (Liebm.) Urban
- 3684. *Struthiopteris Maxonii* Broadh.
- 3686. *Peperomia dispansa* Trel., n. sp. type
- 3691. *Asplenium radicans* L. var.
- 3693. *Struthiopteris polypodioides* (Sw.) Trev.
- 3695. *Lycopodium reflexum* Lam.
- 3697. *Tournefortia glabra* L.
- 3698. *Lycopodium callitrichaefolium* Mett.
- 3701. *Solenophora calycosa* Donn. Sm.
- 3707. *Cavendishia complectens* Hemsl.
- 3708. *Clethra vulcanicola* Standl. New to Costa Rica
- 3709. *Hasseltia floribunda* HBK.
- 3710. *Thibaudia costaricensis* Hoer.
- 3712. *Solanum nigrum* L.
- 3714. *Trichomanes lucens* Sw.
- 3715. *Stelis despectans* Schltr.
- 3716. *Cestrum Endresii* Francey ?
- 3717. *Masdevallia triaristella* Rchb. f.
- 3719. *Polypodium limula* Christ
- 3722. *Struthiopteris polypodioides* (Sw.) Trev.
- 3724. *Hieronyma oblonga* (Tul.) Muell. Arg.
- 3726. *Piper poaso-barbanum* Trel., n. sp., type
- 3727. *Picramnia carpintera* Polak
- 3729. *Ilex lamprophylla* Standl.?
- 3731. *Lycopodium* sp. nov.
- 3732. *Acalypha Ferdinandii* var. *pubescens* K. Hoffm.
- 3733. *Piper coituranode* Trel., n. sp. type
- 3739. *Piper hebetatum* Trel., n. sp. type
- 3740. " *carilloanum* C. DC.

- ✓3741. *Piper inulum* Trel., n. sp. type
- ✓3743. *Gilibertia arborea* (L.) March.
- 3744. *Scapha sepalum* Standleyi Ames
- ✓3746. *Cestrum poasanum* Donn. Sm.
- ✓3747. *Oplismenus hirtellus* (L.) Beauv.
- ✓3751. *Polypodium* sp. Not recognized.
- 3752. *Besleria Wendlandiana* Hanst.
- 3753. ~~Neurocallis~~ *Neurocallis* praestantissima (Bory) Fée
- ✓3754. *Trichilia havanensis* Jacq.
- 3757. *Masdevallia anura* Kränzl.
- 3760. *Stelis pardipes* Rehb. f.
- ✓3761. *Cavendishia Smithii* Hoer.
- ✓3762. *Marcgravia polyantha* Delp.
- 3764. *Pleurothallis lancilabris* (Rehb. f.) Schltr.
- ✓3766. *Grammadenia costaricana* (Hemsl.) Mez
- ✓3767. *Piper pseudolanceaefolium* Trel.
- ✓3769. *Cupania grandiflora* Morton, n. sp. type
- ✓3771. *Campana Oerstedii* Kl.
- ✓3772. *Drymonia conchocalyx* Hanst.
- ✓3773. *Turpinia occidentalis* (Sw.) Don
- ✓3776. *Stelis leucopogon* Rehb. f.
- ✓3781. *Lozania montana* Standl.
- ✓3783. *Polypodium jungermannii* Kl
- ✓3785. *Fregea Wercklei* Schltr.
- ✓3787. *Hieronyma oblonga* (Tul.) Muell. Arg.
- ✓3790. *Cavendishia capitulata* Donn. Sm.
- ✓3791. " *melastomoides* (Kl.) Hemsl.
- 3792. *Oncidium bracteatum* Rehb. f. & Warsc.
- ✓3793. *Centropogon palmanus* (D. Sm.) Wimmer
- ✓3794. *Cuphea calophylla* C. & S.
- ✓3795. *Viola stipularis* Sw.
- ✓3796. *Luehea speciosa* Willd.
- ✓3797. *Cissus brevipes* Morton & Standl.
- 3798. *Tetrastylis lobata* Killip
- ✓3801. *Peperomia edepilata* Trel., n. sp. type
- ✓3802. *Lasiacis Standleyi* Hitchc.
- ✓3804. *Pharus parvifolius* Nash
- ✓3805. " *virescens* Döell.
- ✓3806. *Chusquea Pittieri* Hack.
- ✓3807. *Piper formicitoleras* var. *filipes* Trel., n. sp. type
- 3808. " *fili-terminans* Trel., n. sp. type
- ✓3810. *Piper carilloanum* C. DC. forma
- ✓3814. *Saurauia costaricensis* Donn. Sm.
- ✓3816. *Wissadula excelsior* (Cav.) Presl
- ✓3817. *Lasiacis ruscifolia* (HBK.) Hitchc.
- ✓3819. *Arundinella Deppeana* Nees
- ✓3820. *Heliocarpus excelsior* Morton
- ✓3821. *Lasiacis oaxacensis* (Steud.) Hitchc.
- ✓3823. *Ipomoea Tuerckheimii* Vatke
- ✓3824. *Orthoclada laxa* (L. Rich.) Beauv.
- ✓3825. *Capsicum tetramerum* Standl. & Morton
- ✓3828. *Schultesia lisianthoides* (Griseb.) B. & H.
- ✓3829. *Dolichocarpus dentatus* (Aubl.) Standl.
- ✓3830. *Ichnanthus pallens* (Sw.) Munro
- ✓3831. *Cordia polycephala* (Lam.) Johnst.
- ✓3832. *Piper longipetiolatum* (C. DC.) Trel.

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- ✓3835. *Cynoctonum Mitreola* (L.) Britt.
- ✓3838. *Lobelia xalapensis* HBK.
- 3840. *Polygala brizoides* St. Hil.
- 3841. *Juanullosa Sargii* Donn. Sm.
- ✓3845. *Croton glabellus* L.
- ✓3846. *Peperomia pellucida* (L.) HBK.
- ✓3847. *Pilea hyalina* Fenzl
- ✓3848. *Oxalis corniculata* L. = *O. repens* Thbg.
- ✓3849. *Blechnum fraxineum* Willd. sens. lat.
- ✓3850. *Piper bonum* Trel., n. sp. type
- ✓3852. *Heliocarpus excelsior* Morton
- ✓3854. *Peperomia psiloclada* var. *memoranda* Trel., n. var. type
- ✓3857. *Parathesis serrulata* (Sw.) Mez
- ✓3858. *Banisteria Beechyana* (Juss.) C. B. Rob.
- ✓3859. *Matayba scrobiculata* (HBK.) Radlk. New to Costa Rica
- ✓3861. *Passiflora biflora* Lam.
- ✓3862. *Lasiacis sorghoidea* (Desv.) H. & C.
- ✓3863. " *oaxacensis* (Steud.) Hitchc.
- 3864. *Prestonia dentigera* Woodson, sp. nov. type
- ✓3865. *Pavonia oxyphyllaria* D. Sm.
- ✓3866. *Piper sagittifolium* var. *reductum* Trel., n. var. type
- ✓3867. *Piper falcatispicum* Trel., n. sp. type
- ✓3868. *Piper pubinerve* C. DC.
- ✓3871. *Lasiacis scabrior* Hitchc.
- ✓3872. *Trichomanes rigidum* Sw.
- ✓3874. *Panicum pulchellum* Raddi
- ✓3875. *Lasiacis ruscifolia* (HBK.) Hitchc.
- 3876. " " " "
- ✓3877. *Ichnanthus tenuis* (Presl) H. & C.
- ✓3878. *Panicum polygonatum* Schrad.
- ✓3880. *Serjania cornigera* Turcz.
- ✓3882. *Cestrum alternifolium* (Jacq.) O. E. Schulz
- 3884. *Cydista aequinoctialis* (L.) Miers
- ✓3885. *Justicia comata* (L.) Lam.
- ✓3886. *Desmodium canum* (Gmel.) Schinz & Thell.
- ✓3887. *Ichnanthus tenuis* (Presl) H. & C.
- 3888. *Sauvagesia erecta* L.
- ✓3890. *Panicum pulchellum* Raddi
- ✓3895. *Hygrophila guianensis* Nees
- ✓3896. *Selaginella arthritica* Alston
- ✓3897. *Piper rivuli-quarritans* Trel., n. sp. type
- ✓3898. *Adiantum macrophyllum* Sw.
- ✓3899. *Tetrastylis lobata* Killip
- ✓3900. *Pavonia dasypetala* (Turcz.) Standl.
- ✓3901. *Cissus rhombifolia* Vahl
- ✓3903. *Lindackeria laurina* Presl
- ✓3907. *Piper formicitolersans* Trel.
- ✓3908. *Begonia filipes* Benth.
- ✓3910. *Dryopteris submarginalis* (L. & F.) C. Chr.
- ✓3912. *Adiantum petiolatum* Desv.
- ✓3914. *Psidium Friedrichsthalianum* (Berg) Ndzu
- ✓3919. *Solanum Alexandri* Morton, n. sp. type
- ✓3920. " *salviifolium* Lam.
- ✓3921. *Pteris biaurita* L.
- ✓3922. *Heliocarpus appendiculatus* Turcz.
- ✓3923. *Banisteria Beecheyana* (Juss.) C. B. Rob.

- ✓3924. *Serjania* sp. aff. *racemosa* Schum.
- ✓3925. *Piper riparense* C. DC.
- ✓3926. *Solanum jamaicense* Mill.
- ✓3927. *Vismia ferruginea* HBK.
- ✓3928. *Cestrum panamense* Standl.
- ✓3929. *Piper pravum* Trel., n. sp. type
- ✓3930. *Solanum hirsutissimum* Standl.
- ✓3931. *Hyptis recurvata* Poit.
- ✓3939. *Spananthe paniculata* Jacq.
- ✓3944. *Cuphea utriculosa* Koehne
- ✓3946. *Setaria vulpideta* (Lam.) R. & S.
- ✓3949. *Adiantum concinnum* H. & B.
- ✓3950. *Pogonopus speciosus* (Jacq.) Schum. Rare in Costa Rica
- ✓3951. *Paspalum paniculatum* L.
- ✓3952. *Luehea Seemannii* Tr. & Pl.
- ✓3956. *Passiflora Oerstedii* Mast.
- ✓3957. *Cyphomandra costaricensis* Donn. Sm.
- ✓3959. *Solanum salviifolium* Lam.
- ✓3960. *Hybanthus attenuatus* (H. & B.) G. K. Schulze
- ✓3961. *Trichilia Oerstediana* C. DC.
- ✓3963. *Hymenachne donacifolia* (Raddi) Chase
- ✓3965. *Posadaea sphaerocarpa* Cogn. New to Costa Rica
- ✓3966. *Begonia cuspidata* C. DC.
- ✓3967. *Croton glandulosus* L.
- ✓3969. *Polygala brizoides* St. Hil.
- ✓3970. *Eleusine indica* (L.) Gaertn.
- ✓3971. *Digitaria sanguinalis* (L.) Scop.
- ✓3973. *Polygala paniculata* L.
- ✓3974. *Acalypha arvensis* Poepp. & Endl.
- ✓3975. *Hybanthus attenuatus* (H. & B.) G. K. Schulze?
- ✓3976. *Guazuma ulmifolia* Lam.
- ✓3977. *Panicum trichoides* Sw.
- 3978. *Oncidium Titania* Schltr.
- ✓3980. *Dolicharpus multiflorus* Standl. New to Costa Rica
- ✓3982. *Solanum celsum* Standl. & Morton
- 3983. *Melothria guadalupensis* (Spreng.) Cogn.
- ✓3984. *Tectaria rheosora* (Baker) C. Chr.
- ✓3987. *Saccoloma inaequale* (Kunze) Mett.
- ✓3989. *Psidium Friedrichsthalianum* (Berg) Ndzu
- ✓3990. *Terminalia chiriquensis* Pittier
- ✓3991. *Cupania fulvida* Tr. & Pl.?
- 3992. *Eugenia Oerstediana* Berg
- ✓3993. *Tetrapteris acapulcensis* HBK.
- ✓3994. *Panicum zizanioides* HBK.
- 3997. *Cuphea carthaginensis* (Jacq.) Macbr.
- 3998. *Desmodium adscendens* (Sw.) DC.
- 4000. *Bacopa procumbens* (Mill.) Greenm.
- ✓4003. *Ipomoea Nil* (L.) Roth
- ✓4004. *Panicum maximum* Jacq.
- ✓4005. *Merremia aegyptia* (L.) Urban
- ✓4008. *Pseudechinolaena polystachya* (HBK.) Stapf
- 4012. *Desmodium scorpiurus* Desv.
- ✓4013. *Cordia bicolor* DC. Apparently new to Costa Rica
- ✓4017. *Mesechites trifida* (Jacq.) Muell. Arg.
- ✓4021. *Phyllanthus Pittieri* Pax
- ✓4022. *Eragrostis maypurensis* (HBK.) Steud.
- ✓4027. *Croton Tonduzii* Pax
- ✓4028. *Zinowiewia costaricensis* Lundell

- ~~4029.~~ *Rapanea pellucido-punctata* (Oerst.) Mez
- ~~4030.~~ *Cordia bicolor* DC.
- ~~4032.~~ *Simaruba glauca* DC.
- ~~4034.~~ *Paspalum conjugatum* Berg
- ~~4035.~~ *Hyparrhenia rufa* (Nees) Stapf
- ~~4037.~~ *Passiflora ambigua* Hemsl.
- ~~4039.~~ *Ichnanthus pallens* (Sw.) Munro
- ~~4040.~~ *Lasiacis sorghoidea* (Desv.) H. & C.
- ~~4041.~~ *Myrica plicato-lobata* Berg
- ~~4045.~~ *Eugenia Oerstediana* Berg
- ~~4046.~~ *Belotia macrantha* Sprague
- ~~4051.~~ *Hieronyma oblonga* (Tul.) Muell. Arg.
- ~~4053.~~ *Panicum Heankeanum* Presl
- ~~4054.~~ *Coix lacryma-jobi* L.
- ~~4055.~~ *Olyra latifolia* L.
- ~~4062.~~ *Merremia umbellata* (L.) Hallier
- ~~4063.~~ *Pavonia paniculata* Cav.
- ~~4064.~~ *Sida pyramidata* Desp.
- ~~4065.~~ *Paspalum virgatum* L.
- ~~4066.~~ *Panicum grande* H. & C.
- ~~4067.~~ *Sida glutinosa* Comm.
- ~~4068.~~ *Passiflora biflora* Lam.
- ~~4070.~~ *Byttneria aculeata* Jacq.
- ~~4073.~~ *Dalechampia panamensis* Pax. & Hoffm.
- ~~4074.~~ *Solanum accrescens* Standl. & Morton
- ~~4076.~~ *Jacquemontia ciliata* Sandw.
- ~~4077.~~ *Xylosma intermedium* (Tr. & Pl.) Griseb.
- ~~4080.~~ *Alchornea latifolia* Sw.
- ~~4082.~~ *Piper deductum* Trel.
- ~~4089.~~ *Axonopus aureus* Beauv.
- ~~4090.~~ *Jacquemontia aurea* (Desr.) Choisy
- ~~4091.~~ *Davilla Kunthii* St. Hil.
- ~~4093.~~ *Vismia latifolia* Choisy
- ~~4095.~~ *Paspalum decumbens* Sw.
- ~~4100.~~ *Andropogon virgatus* Desv.
- ~~4105.~~ *Lindsaea stricta* (Sw.) Dry.
- ~~4106.~~ *Trichomanes pinnatum* Hedw.
- ~~4107.~~ *Lophidium elegans* (Vahl) Presl
- ~~4109.~~ *Lisianthus Seemannii* (Griseb.) Perkins
- ~~4113.~~ *Pennisetum purpureum* Schumach.
- ~~4114.~~ *Scaphyglottis mesocopia* (Endres & Rchb. f.) B. & H.
- ~~4115.~~ *Panicum* sp.
- ~~4119.~~ *Anguria* near *Tonduzii* Cogn.
- ~~4121.~~ *Ipomoea* n. sp.?
- ~~4128.~~ *Lantana grosseserrata* Moldenke, n. sp. type
- ~~4129.~~ *Mandevilla hirsuta* (A. Rich.) K. Sch.
- ~~4131.~~ *Tournefortia bicolor* Wartz
- ~~4132.~~ *Cordia glabra* L.
- ~~4133.~~ *Cydista aequinoctialis* (L.) Miers
- ~~4134.~~ *Russelia verticillata* HBK.
- ~~4141.~~ *Burmeistera cyclostigmata* Donn. Sm.
- ~~4143.~~ *Marcgravia guatemalensis* Standl. New to Costa Rica
- ~~4144.~~ *Begonia* n. sp.
- ~~4145.~~ *Centropogon nutans* Pl. & Oerst.
- ~~4147.~~ *Solanum trizygum* Bitter
- ~~4151.~~ *Iygodium radiatum* Fernald

- ~~4153.~~ *Acalypha macrostachya* Jacq.
- ~~4156.~~ *Jussiaea suffruticosa* L.
- ~~4157.~~ *Peperomia umbrigaudens* Trel., n. sp. type
- ~~4163.~~ *Bombacopsis sessilis* (Benth.) Pitt.
- ~~4167.~~ *Marila verapazensis* Donn. Sm.
- ~~4169.~~ *Dicranopteris bifida* (Willd.) Maxon
- ~~4170.~~ *Epidendrum imatophyllum* Lindl.
- ~~4173.~~ *Dicranopteris pectinata* (Willd.) Underw.
- ~~4174.~~ *Jussiaea lithospermifolia* Kunth
- ~~4177.~~ *Arundinella Deppeana* Nees
- ~~4178.~~ *Piper praemorsicaudatum* Trel., n. sp. type
- ~~4181.~~ *Orthoclada laxa* (L. Rich.) Beauv.
- ~~4185.~~ *Asplenium Solmsii* Baker
- ~~4186.~~ *Blechnum occidentale* L.
- ~~4187.~~ *Salvia drymocharis* Epling
- ~~4188.~~ *Stemodia peduncularis* Benth.
- ~~4191.~~ *Lippia Torresii* Standl.
- ~~4192.~~ *Salvia Holwayi* Blake
- ~~4195.~~ *Lozanella enantiophylla* (D. Sm.) Killip & Morton
- ~~4198.~~ *Cestrum dumetorum* Schlecht.
- ~~4199.~~ " " "
- ~~4202.~~ *Wigandia caracasana* HBK.
- ~~4206.~~ *Lamoureauxia lanceolata* Benth.
- ~~4210.~~ *Columnnea florida* Morton
- ~~4216.~~ *Piper carilloanum* C. DC. form
- ~~4218.~~ *Solanum lanceifolium* Jacq.
- ~~4224.~~ *Stachytarpheta Frantzii* Polak.
- ~~4226.~~ *Heliocarpus appendiculatus* Turcz.
- ~~4227.~~ *Solanum jamaicense* Mill.
- ~~4231.~~ *Trizeuxis falcata* Lindl.
- ~~4235.~~ *Sapium jamaicense* Sw.
- ~~4237.~~ *Olyra latifolia* L.
- ~~4238.~~ " *caudata* Trin.
- ~~4240.~~ *Vitis tiliifolia* H. & B.
- ~~4244.~~ *Protium costaricense* (Rose) Engl.
- ~~4246.~~ *Gurania Seemanniana* Cogn.
- ~~4247.~~ *Trixis radialis* (L.) Kuntze
- ~~4248.~~ *Dryopteris serrata* (C v.) C. Chr.
- ~~4251.~~ *Eugenia Oerstediana* Berg.
- ~~4252.~~ *Terminalia chiriquensis* Pittier
- ~~4253.~~ *Posoqueria latifolia* (Lam.) R. & S.
- ~~4254.~~ *Securidaca sylvestris* Schlecht.
- ~~4257.~~ *Clethra lanata* M. & G.
- ~~4258.~~ *Pleonotoma variabile* (Jacq.) Miers
- ~~4261.~~ *Banisteria Beecheyana* (Juss.) C. B. Rob.
- ~~4264.~~ *Croton glabellus* L.
- ~~4265.~~ *Calonictyon aculeatum* (L.) House
- ~~4266.~~ *Urera laciniata* Wedd.
- ~~4269.~~ *Codonanthe crassifolia* (Focke) Morton
- ~~4271.~~ *Acalypha diversifolia* var. *leptostachya* (HBK.) Pax & Hoffm.
- ~~4272.~~ *Serjania mexicana* Willd.
- ~~4273.~~ *Davilla rugosa* Poir.
- ~~4275.~~ *Luehea speciosa* Willd.
- ~~4277.~~ *Zinowiewia costaricensis* Lundell
- ~~4278.~~ *Symplocos costaricana* Hemsl.
- ~~4279.~~ *Allophyllus panamensis* Radlk.

- ✓ 4281. *Tetrathylacium costaricense* Standl.
- ✓ 4285. *Odontadenia puncticulosa* (A. Rich.) Pulle. New to N. America
- ✓ 4286. *Hasseltia floribunda* HBK.
- ✓ 4290. *Piptocarpha chontalensis* Baker
- ✓ 4291. *Acalypha diversifolia* var. *carpinifolia* (Poepp. & Endl.) Muell. Arg.
- ✓ 4293. *Clethra lanata* M. & G.
- ✓ 4295. *Vochysia hondurensis* Sprague
- ✓ 4298. *Solanum* (*Lycianthes*) *ferrugineum* (Bitt.)
- ✓ 4299. *Columnea affinis* Morton, n. sp. type
- ✓ 4302. *Phyllanthus Pittieri* Pax
- ✓ 4305. *Rischeria funebris* (Donn. Sm.) Blake
- ✓ 4313. *Trichilia montana* HBK.
- ✓ 4314. *Cordia polycephala* (Lam.) Johnst.
- ✓ 4321. *Byrsonima crassifolia* (L.) HBK.
- ✓ 4323. *Mendoncia Lindavii* Rusby
- ✓ 4325. *Phyllanthus* sp.
- ✓ 4326. *Sloanea guapilensis* Standl.
- ✓ 4327. *Turpinia paniculata* Vent.
- ✓ 4330. *Erigeron bonariensis* L.
- 4331. *Desmodium axillare* var. *Sintenisii* Urban
- 4336. *Tetrastylis lobata* Killip
- ✓ 4338. *Solanum rugosum* Dunal
- ✓ 4340. *Croton glandulosus* L.
- ✓ 4342. *Pavonia axonii* Standl.
- 4344. *Desmodium axillare* var. *acutifolium* (Kuntze) Urban
- ✓ 4345. *Clethra lanata* M. & G.
- ✓ 4349. *Heliotropium indicum* L.
- ✓ 4350. *Alloplectus consanguineus* Morton, n. sp. type
- ✓ 4351. *Erythroxyton lucidum* var. *costaricense* (D. Sm.) Schulz
- ✓ 4353. *Drymonia spectabilis* (HBK.) Mart.
- ✓ 4355. *Heliotropium lagoense* (Warm.) Gürke
- ✓ 4357. *Cordia toqueve* Aubl.
- ✓ 4362. *Symplocos costaricana* Hemsl.
- ✓ 4369. *Polypodium fallax* Schl. & Cham.
- ✓ 4370. *Ardisia compressa* var. *crenata* Morton, var. nov. type
- ✓ 4371. " *Skutchii* Morton
- ✓ 4373. *Saracha procumbens* (Cav.) Ruiz & Pavon
- ✓ 4382. *Pityrogramma calomelaena* (L.) Link
- ✓ 4383. *Solanum* (*Lycianthes*) *synantherum* Sendtn.
- ✓ 4385. *Paullinia fasciculata* Radlk.
- ✓ 4388. *Solanum hirsutissimum* Standl. New to Costa Rica.
- ✓ 4390. *Eugenia Pittieri* Standl.
- ✓ 4391. *Eschatogramme panamensis* C. Chr.

New and Revised Identifications of Previous Sendings.

2168. *Solanum ochraceo-ferrugineum* (Dunal) Fernald (syn. *Solanum diversifolium* Schl.) Det. Morton.
2314. *Piper sesquimetrace* Trel. n. sp. type (not *P. sesquipedale*)
2364. *Solanum celsum* Standl. & Morton n. sp. type (not *S. bicolor*)
2376. *Clusia oblanceolata* Rusby (not *Chrysochlamys* sp.) Det. Standley
2387. *Cestrum Baenitzii* Lingelsh. (not *C. laurifolium*) Det. Morton
2415. *Eupatorium vulcanicum* Benth.
2459. *Cestrum mariquitense* var. *latifolium* (Francey) Standl. & Morton
(not *Cestrum* n. sp.) Det. Morton
2519. *Hasseltia floribunda* HBK. (not *H. mexicana*) Det. Morton
2576. *Justicia Oerstedii* Leonard (not *J. glabra*) Det. Leonard
2670. *Lundia corymbifera* (Vahl.) Sandw. (not *Arrabidaea* sp.) Det. Sandwith.
2728. *Solanum ciliatum* Lam. (not *S. aculeatissimum*) Det. Standley & Morton
2773. *Phyla scaberrima* (A. L. Juss.) Moldenke (not *Lippia reptans*) Det. Moldenke
2862. *Capsicum tetramerum* Standl. & Morton n. sp. type (not *C. viscidum*)
2865. *Piper obiter-sericeum* Trel. n. sp. type (not *P. obitu-sericeum*)
2876. *Ipomoea Nil* (L.) Roth (not *I. hederacea*) Det. Morton.
2979. *Solanum accrescens* Standl. & Morton, n. sp. type
3012. *Justicia Skutchii* Leonard, n. sp. type.
3017. *Mikania eupatorioides* Blake (not *Eupatorium* sp.) Det. Blake
3032. *Alloplectus tetragonus* (Oerst.) Hanst. (not *A. elegantissimus* Morton ined.)
3041. *Mikania eupatorioides* Blake n. sp. type (not *Eupatorium* sp.)
3045. *Eupatorium vulcanicum* Benth. Det. Blake
3063. *Jacquemontia ciliata* Sandw. (not *J. menispermoides*) Det. Morton.
3071. *Crotalaria pilosa* var. *Skutchii* Senn, var. nov. type (not *C. pterocaulon*)
3119. *Centropogon palmanus* (D. Sm.) Wimmer. Det. McVaugh
3128. *Eupatorium angulare* Rob.
3158. *Gurania* cfr. *Pittieri* Cogn. Det. Morton
3165. *Metastelma filisepalum* Standl. Det. Morton
3169. *Cyclanthera Langei* Cogn. Det. Morton
3179. *Capsicum macranthum* Standl. & Morton
3211. *Utricularia Endresii* Rchb. Det. Morton
3213. *Vittaria lineata* (L.) J. E. Sm. Det. Maxon
3228. *Burmeistera Pittieri* Wimmer. Det. McVaugh
3231. *Cavendishia melastomoides* (Kl.) Hemsl. Det. A. C. Smith
3234. " *costaricensis* Hoer. Det. A. C. Smith
3245. *Disterigma Humboldtii* (Kl.) Nied. Det. A. C. Smith
3247. *Gaultheria gracilis* Small. " " "
3254. *Capsicum macrophyllum* (HBK.) Standl. Det. Standl. & Morton
3255. *Aegiphila aculeifera* Moldenke. Det. Moldenke
3280. *Solanum roblense* Bitter. Det. Standl. & Morton
3283. *Burmeistera Pittieri* Wimmer Det. McVaugh
3286. *Solanum parcebarbatum* Bitter Det. Standl. & Morton
3291. *Lippia costaricensis* Moldenke. Det. Moldenke
3313. *Capsicum stenophyllum* Morton & Standl. (not *C. macrophyllum*) Det. Standl. & Morton
3317. *Cavendishia Endresii* Hemsl. Det. A. C. Smith
3332. *Meliosma panamensis* Standl. New to Costa Rica. Det. Morton
3335. *Capsicum maculatum* Standl. & Morton, n. sp. type
3355. *Markea venosa* Standl. & Morton, n. sp. type
3358. *Buddleia americana* L. Det. Morton
3360. *Alloplectus multiflorus* (Oerst.) Hanst. (not *Drymonia scandens* Morton ined.)
3372. *Burmeistera aurobarbata* (Wimmer) Wimmer. Det. Morton
3373. *Cavendishia capitulata* D. Sm. Det. A. C. Smith

Costa Rica Plants collected by Dr. Alexander F. Skutch

Additions and corrections to previous lists.

- Monim* X 2220 *Siparuna patelliformis* Perkins (Not *S. nicaraguensis*)
Cyper 2271 *Eleocharis geniculata* (L.) R. Br. (not *E. interstincta*)
Leg X 2506 *Lachnarium longifolium* Benth. (syn. *L. costaricanum*) det. Hochne
2533 *Cyphoandra costaricensis* D. Ga.
Rub 2533 *Ladenbergia sericophylla* Standl. (not *L. calycina*) det. Standl.
Leg 2562 *Boehmeria ramiflora* var. *cuspidata* Wedd. (not *B. ulmifolia*) det. Killip
Monim 2589 *Guatteria recurvisepala* Fries n. sp. (reported as *Guatteria* n. sp.?)
Monim 2609 *Mollinedia discrepans* Morton (not *M. Pinchotiana*)
" 2628 " " " " " "
Tiliac V 2658 *Belotia Campbellii* Sprague (not *B. macrantha*) det. Bullock
2750 *Polypodium enterosporoides* Christ (not *P. parcrassum*) det. Maxon
2784 *Jussiaea foliobracteata* Munz ined. (not *J. peruviana* aff.) det. Munz
2957 *Pithecellobium longifolium* (H.B.K.) Standl. (not *P. Standleyi*)
Monim 3085 *Mollinedia discrepans* Morton, n. sp. type (not *M. Pinchotiana*)
Monim 3131 *Siparuna patelliformis* Perkins (not *paralleloneura* or *Tondusiana*)
3315 *Inga latipes* Pitt. (not *I. luculenta* n. sp. ined) 1 st. flowering
material collected.
Rign X 3324 *Schlegelia Ramirezii* var. *macrandra* Sandw. var. nov. det. Sandwith
3636 *Pteris paucinervata* Fee (not *Pteris* n. sp.) det. Maxon
Rign 3884 X *Paragonia pyramidata* (Rich.) Bur. (not *Cydista squinoctialis*) det. Sandwith
" X 4133 " " " " " " " "
4155 *Jussiaea suffruticosa* L. (erroneously reported as 4156)
4156 *Peperomia umbrigaudens* Trel. n. sp. type (erroneously reported as 4157)

W.A.N. JUL 31 1940

Costa Rica Plants collected by Dr. Alexander F. Skutch
(Acc. no. 148934)

5 th. consignment, second report.

Identified by C. V. Morton, U. S. National Museum,
July, 1940.

- 3387 *Lozanella enantiophylla* (D. Sm.) Killip & Morton
3388 *Phytolacca icosandra* L.
3389 *Phytolacca rivinoides* Kunth & Bouche'
3390 *Rondeletia Cooperi* Standl. ? ex char.
3393 *Hydrangea Oerstedii* Briq.
3400 *Cissampelos fasciculata* Benth.
Rub 3402 *Palicourea* n. sp. ?
3414 *Begonia* sp.
3416 *Sisynchium tinctorium* H. B. K.
Anon. 3430 *Guatteria oliviformis* D. Sm. det. R. E. Fries
3439 *Psychotria pithecolobium* Standl.
3447 *Smilax Engleriana* Apt
3473 *Rubus glaucus* Benth.
Rub 3475 *Palicourea lasiorhachis* Oerst.?
3478 *Clematis dioica* L.
3483 *Clematis dioica* L.
Cyclanth 3486 *Carludovica microphylla* Oerst.
✓ 3496 *Desmodium campylocladus* Hemsl. det. B. Schubert
Rub 3500 *Hoffmannia pallidiflora* Standl.
3502 *Prunus cornifolia* Koehne
3507 *Anthurium porrectum* Schott
3508 *Holtonia* n. sp.?
✓ 3518 *Gynogramma congesta* Christ det. W. R. Maxon
3521 *Myriocarpa longipes* Liebm. det. E. P. Killip
3524 *Rubus vulcanicola* (D. Sm.) Rydb.
✓ 3532 *Bomarea Porschiana* Cuf. det. E. P. Killip
✓ 3559 *Hymenophyllum intercalatum* Christ
3562 *Dioscorea Standleyi* Morton
3564 *Pithecellobium costaricense* (B. & R.) Standl.
3565 *Urera caracasana* (Jacq.) Griseb. var. det. E. P. Killip
✓ 3568 *Phenax hirtus* (Sw.) Wedd. " " "
3569 *Phoradendron gracilispicum* Trel.
3570 *Dendrophora biserrula* Eichl.
3585 *Drinys Winteri* Forst.
Rub 3587 *Hoffmannia longipetiolata* Polak.?
3591 *Passiflora brevipila* Killip n. sp. type
✓ 3592 *Bilea Pittieri* Killip det. E. P. Killip
3593 *Anthurium pallens* Schott
3595 *Psychotria* sp.
3597 *Siparuna grisea* Perkins
3598 *Siparuna paralleloneura* Perkins
3599 *Siparuna patelliformis* Perkins
3602 *Urera caracasana* (Jacq.) Griseb. var. det. E. P. Killip
3603 *Boehmeria ramiflora* var. *cuspidata* Wedd. " " "

- 3606 *Persea Schiedeana* Nees
 3607 *Lozanella enantiophylla* (D. Sm.) Killip & Morton
 ✓ 3613 *Hymenophyllum costaricense* v.d.B.
 3626 *Cavendishia quereme* (H.B.K.) B. & H. det. A. C. Smith
 3627 *Gynandropsis pulcherrima* Standl.
 ✓ 3639 *Hymenophyllum* sp. Perhaps new.
 ✓ 3640 *Stellaria ovata* Willd.
 3642 *Cissampelos fasciculata* Benth.
 3644 *Anthurium* sp.
 ✓ 3645 *Borreria laevis* (Lam.) Griseb.
 ✓ 3646 *Pilea parietaria* (L.) Blume det. E. P. Killip
 3652 *Anthurium joseanum* Engl.
 3657 *Anthurium subcordatum* Schott
 3662 *Gynandropsis pulcherrima* Standl.
 ✓ 3665 *Anthurium scandens* (Aubl.) Engl.
 3669 *Rubus abundus* Rydb.
 3681 *Diplazium macrophyllum* Desv.
 3687 *Anthurium Pittieri* Engl.
 3689 *Hoffmannia hondurensis* Standl.?
 3690 *Coussarea Austin-Smithii* Standl.
 3692 *Diplazium obscurum* Christ
 3694 *Anthurium Pittieri* Engl.
 3702 *Trema micrantha* (L.) Blume
 3703 *Juncus microcephalus* H. B. K.
 3705 *Inga laurina* (Sw.) Willd.
 3706 *Anthurium protensum* Schott
 3711 *Sickingia* n. sp.?
 3720 *Cephaelis axillaris* Sw.
 3721 *Citharexylum caudatum* L.
 3723 *Mucuna urens* (L.) DC.
 3725 *Palicourea chiriquina* Standl.?
 3736 *Phoebe Pittieri* Mez
 3737 *Lindsaea horizontalis* Hook.
 3745 *Ocotea* sp.
 3748 *Uncinia hamata* (Sw.) Urban
 3750 *Urera alceifolia* Gaud. det. E. P. Killip
 3755 *Ocotea pentagona* Mez
 3756 *Psychotria Torresiana* Standl.
 3763 *Inga latipes* Pittier
 3770 *Rubus impressus* Morton n. sp. type
 3774 *Elaphoglossum tectum* (H. & B.) Moore
 3777 *Symplocos Austin-Smithii* Standl.? ex char.
 3778 *Brunellia costaricensis* Standl.
 3780 *Inga latipes* Pittier
 3782 *Dichapetalum Donnell-Smithii* Engl.
 3784 *Struthanthus marginatus* (Desr.) Blume
 3788 *Dichapetalum Donnell-Smithii* Engl.
 3789 *Roupala glaberrima* Pittier

W.R.M. JUL 9 1940

Costa Rica Plants collected by Dr. Alexander F. Skutch
(Acc. no. 151709)

6th consignment, second report

Acanthaceae identified by E. C. Leonard, Annonaceae by R. E. Fries,
the remainder by G. V. Morton, U. S. National Museum,
July, 1940

- 3799 *Justicia metallica* Lindau
3800 " " "
3813 *Siparuna patelliformis* Perkins
3815 *Cassia* n. sp.? = 2428
3822 *Athyrocarpus rufipes* (Seub.) Standl.
3827 *Casearia sylvestris* Sw.
3833 *Phthirusa pyrifolia* (H. B. K.) Eichl.
3834 *Inga confusa* B. & R.
3836 *Nectandra globosa* (Aubl.) Mez
3837 *Oryctanthus spicatus* (Jacq.) Eichl.
3839 *Euphorbia hirta* L.
3842 *Jacobinia macrantha* (Benth.) Hemsl.
3843 *Justicia pectoralis* Jacq.
3844 *Phoebe neurophylla* Mez & Pitt.
3851 *Blechnum costaricense* Oerst.
3853 *Euphorbia graminea* Jacq.
3860 *Canavalia panamensis* Piper ?
✓ 3869 *Desmodium axillare* var. *Sintenisii* Urban det. B. Schubert
3870 *Trichomanes diversifrons* (Bory) Mett. det. W. R. Maxon
3872 *Trichomanes rigidum* Sw.
3879 *Trema micrantha* (L.) Blume
3883 *Psychotria psychotriifolia* (Seem.) Standl.
3889 *Stellaria ovata* Willd.
3891 *Tonina fluviatilis* Aubl.
✓ 3893 *Desmodium scorpiurus* (Sw.) Desv. det. B. Schubert
3894 *Centrosema pubescens* Benth.
3902 *Cyathula achyranthoides* (H.B.K.) Moq.
3904 *Psychotria viridis* R. & P.
3906 *Nectandra* sp.
3909 *Psychotria cuspidata* Bredem.
✓ 3913 *Desmodium Wydlerianum* Urban det. B. Schubert
3915 *Inga punctata* Willd.
3916 *Xylopia frutescens* Aubl.
3917 " *aromatica* (Lam.) Mart.
3918 *Calopogonium mucunoides* Desv.
3932 *Oldenlandia herbacea* (L.) DC.
3936 *Indigofera mucronata* Spreng.
3940 *Lonchocarpus guatemalensis* Benth.
3941 *Aphelandra Sinclairiana* Nees
3942 *Chaetochlamys panamensis* Lindau
3947 *Portulaca oleracea* L.
3948 *Hirtella americana* L. (syn. *H. mollicoma* H.B.K.)
3953 *Machaerium acanthothyrus* Pittier
3955 *Psychotria marginata* Sw.
3958 *Cissampelos tropaeolifolia* DC.
3972 *Borreria ocymoides* (Burm.) DC.
3979 *Odontonema strictum* (Nees) Kuntze

- Rub.* 3981 *Condaminea corymbosa* (R. & P.) DC. New to Costa Rica.
rub. 3985 *Siparuna patelliformis* Perkins
rub. 3988 *Cecropia mexicana* Hemsl.
Rub. 3995 *Sonnera grandis* (Bartl.) Standl.
leg. 3996 *Calopogonium caeruleum* Benth.
Pontad. 3999 *Heberanthera reniformis* R. & P.
rub. 4001 *Canna lutea* Mill.
rub. 4006 *Callisia monandra* (Sw.) Schult.
rub. 4009 *Psychotria brachiata* Sw.
rub. 4011 *Ficus costaricensis* (Liebm.) Miq.
rub. 4016 *Dioscorea convolvulacea* var. *glabra* Uline
rub. 4023 *Struthanthus polystachyus* (R. & P.) Blume
4024 *Erythrina Berteroana* Urban
4025 *Justicia Oerstedii* Leonard
4031 *Rhynchosia pyramidalis* (Lam.) Urban
4036 *Justicia pectoralis* Jacq.
4038 *Tetrapteris* sp.? Fruit necessary
4042 *Phoebe costaricana* Mez & Pitt. Previously known only from type.
4047 *Holtonia myriantha* Standl.
4048 *Smilax panamensis* Morong
rub. 4049 *Meliosma grandiflora* Morton, n. sp. type
rub. 4059 *Strychnos* sp. Perhaps new.
4060 *Justicia pectoralis* Jacq.
4069 *Euphorbia hypericifolia* L.
Rub. 4075 *Hemidiodia ocymifolia* (Willd.) Schum.
rub. 4083 *Pourouma aspera* Trecul.
4086 *Ilex Valerii* Standl.?
4087 *Centrosema virginianum* (L.) Benth.
Rub. 4096 *Coccocypselum glabrum* DC. New to Costa Rica.
Rub. 4098 *Palicourea triphylla* DC.
xyrid. 4103 *Xyris macrocephala* Vahl
4111 *Inga marginata* Willd.
Rub. 4116 *Sonnera grandis* (Bartl.) Standl.
4117 *Dicliptera unguiculata* Nees
4120 *Caesalpinia pulcherrima* L.
rub. 4125 *Schlegelia Ramizii* var. *costaricensis* Sandw. var. nov. type
4127 *Lindsaea lancea* (L.) Bedd.
4130 *Hirtella americana* L.
monoc. 4136 *Siparuna nicaraguensis* Hemsl.
4140 *Dicliptera Skutchii* Leonard
Rub. 4142 *Faramea suerrensii* D. Sm.
4143 *Rondeletia* n. sp. ?
4150 *Capparis discolor* D. Sm.
leg. 4152 *Machaerium floribundum* Benth.
rub. 4164 *Ficus Tonduzii* Standl.
4165 *Psychotria Valeriana* Standl.? ex char.
4166 " *brachiata* Sw.
4168 *Hippocratea volubilis* L. det. A. C. Smith
4172 *Nectandra* sp.
4182 *Nectandra glabrescens* Benth.
4189 *Namelia patens* Jacq.
rub. 4194 *Mauria birringo* Tul.
4201 *Hymenophyllum fucoides* Sw.
4203 *Dicliptera unguiculata* Nees

- 4204 *Mauria glauca* D. Sm.
 4207 *Marica gracilis* Herb.
 4209 *Ruellia tetrastichantha* Lindau
 4212 *Aphelandra Tonduzii* Leonard
 4213 *Sciodaphyllum systylum* D. Sm.
 4214 *Foikilacanthus macranthus* Lindau
 4215 *Rudgea Skutchii* Standl.
 4217 *Capparis discolor* D. Sm.
 4221 *Bioscorea cyanisticta* D. Sm.
 4223 *Rondeletia buddleioides* Benth.
 4225 *Fourouma aspera* Trecul.
 4228 *Oncidium ascendens* Lindl. det. O. Ames
 4232 *Inga multajuga* Benth.
 4233 *Mendoncia Lindavii* Rusby
 4234 *Guatteria recurvisepala* Fries, n. sp. type
 4236 *Alternanthera laguroides* Standl.
 4239 *Acacia Farnesiana* (L.) Willd.
 4241 *Virola Koschnyi* Warb.
 4242 *Triplaris americana* L.

W.R.W. JUL 9 - 1940

Costa Rica Plants collected by Dr. Alexander F. Skutch
(Acc. no. 153072)

7th consignment, second report.

Identified by C. V. Morton, U. S. National Museum,
July 1940.

- Leg. 4245 *Entada gigas* (L.) Fawc. & Rendle
Leg. 4250 *Pterocarpus Hayenii* Benth.
Leg. 4255 *Tamarindus indica* L.
Morac 4256 *Coussapoa Donnell-Smithii* Mildbr.
Myristic 4260 *Virola Boschnyi* Harb.
Morac 4262 *Coussapoa Donnell-Smithii* Mildbr.
Morac 4263 *Ficus colubrinae* Standl.
Morac 4267 *Coussapoa Donnell-Smithii* Mildbr.
Leg. 4268 *Machaerium marginatum* Standl.
Saur 4270 *Ocotea germu* (Mez) Mez
Leg. 4274 *Pterocarpus Hayenii* Benth.
Palm 4283 *Cissampelos pareira* L.
Leg. 4288 *Inga marginata* Willd.
Leg. 4292 *Celtis iguanaea* (Jacq.) Sargent
Rub 4294 *Hamelia patens* axillaris Sw.
Leg. 4295 *Pithecellobium longifolium* (H. & B.) Standl.
Laur 4303 *Ocotea ira* Mez & Pitt.
Flac 4304 *Casahuate javitensis* H.B.K.
Morac 4311 *Siparuna guianensis* Aubl.
Vib 4315 *Citharexylum Cooperi* Standl. det. H. Moldenke
Leg. 4316 *Machaerium darienense* Pittier. New to Costa Rica
Anon 4317 *Kollinia Standleyi* H. & B. Fries det. Fries
4318 *Psychotria horizontalis* Sw.
Rub 4319 *Hamelia patens* Jacq.
Laur 4322 *Rudgea cornifolia* (H. & B.) Standl.
Leg. 4324 *Stryphnodendron excelsum* Harms
Saur 4325 *Nectandra* sp.
4329 *Phoebe neurophylla* Mez & Pittier
Anon 4339 *Xylopia aromatica* (Lam.) Mart. det. Fries
Morac 4344 *Cymbopetalum costaricense* (B. Sm.) Fries det. Fries
4347 *Psychotria Valeriana* Standl.? ex char.
Rub 4355 *Declieuxia fruticosa* var. *mexicana* (DC.) Standl.
4358 *Euphorbia thymifolia* L.
Saur 4366 *Setaria geniculata* (Lam.) Beauv.
4372 *Capparis* sp. aff. *discolor* B. Sm.
Saur 4374 *Nectandra panamensis* Mez
4375 *Paspalum plicatulum* Richx. det. A. Chase
4377 *Croton Skutchii* Standl. n. sp. type

Costa Rican plants collected by A. F. Skutch

Corrected identifications

- 223 - ✓ 2173. *Tibouchina longifolia* (Vahl) Baill. (not *T. Bourgeaui*) det. Gleason C. 64
- 253 - ✓ 2292. *Lippia costaricensis* Moldenke n. sp. type (not *L. myriocephala*) III 64
- 223 - ✓ 2477. *Miconia punctata* (Desr.) D. Don (not *M. habrolepis*) det. Gleason C. R 64
- 273 - 2503. *Conostegia subcrustulata* Triana (not *Miconia* sp.) det. Gleason "
- 128 - ✓ 2506. *Machaerium longifolium* Benth. (syn. *M. costaricanum* Pitt.) det. Hoehne II-37
- 257 2509. *Cordia eriostigma* Pitt. (not *C. glabra*) det. Johnston C. 100
- 273 ✓ 2582. *Conostegia xalapensis* (Bonpl.) Don (syn. *C. lanceolata*) det. Gleason C. 64
- 8-47 ✓ 2935. *Tradescantia multiflora* Swartz New to Costa Rica (not *T. cumanensis*)
det. Morton
- " ✓ 2947. *Eleocharis Sellowiana* Kunth (not *E. Pittieri*) det. Svenson
- " ✓ 3049. *Eleocharis Sellowiana* Kunth (not *E. Pittieri*) det. Svenson
- 273 ✓ 3101. *Leandra melanodesma* (Naud.) Cogn. (not *L. costaricensis*) det. Gleason C. 64
- und - 3246. *Telipogon setosus* Ames n. sp. type (reported as *Telipogon* sp.)
- 253 - 3297. *Lippia costaricensis* Moldenke Reported erroneously as 3291. III 64
- 252 4132. *Cordia eriostigma* Pitt. (not *C. glabra*) det. Johnston C. 100
- 270 ✓ 4165. *Psychotria solitudinum* Standl. (not *P. Valeriana?*) det. Standley III-71
- 253 ✓ 4224. *Stachytarpheta mutabilis* var. *violacea* Moldenke var. nov. type III 64
(not *S. Frantzii* Polak)
- 147- 4325. *Phyllanthus Skutchii* Standl. n. sp. type (reported as *Phyllanthus* sp.) II-57
- 172 4326. *Sloanea palmana* Standl. (reported as *S. guapilensis*) det. Standley II-57
- 147- 4340. *Croton lobatus* L. (reported as *C. glandulosus* L.) det. Standley II-57
- 270 4347. *Psychotria solitudinum* Standl. n. sp. type (reported as *P. Valeriana?*) II-71
- 134 4847. *Erythroxylon Skutchii* Standl. n. sp. type (reported as *E. amplum* Benth.) 28

Costa Rican plants collected by A. F. Skutch

4th to 8th Consignments, Supplementary report

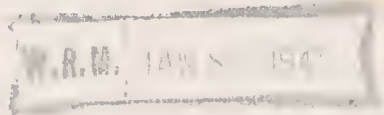
Melastomaceae identified by H. A. Gleason, Annonaceae by R. E. Fries,
Apocynaceae by Robert E. Woodson, Eleocharis by H. Svenson,
Rubiaceae and some others by P. C. Standley, the remainder
by C. V. Morton, December 1940.

- ✓3413. *Blakea anomala* D. Sm.
✓3417. *Miconia glaberrima* (Schl.) Naud.
✓3556. *Rauwolfia sarapiquensis* Woodson n. sp. type
✓3563. *Conostegia Pittieri* Cogn.
✓3768. *Miconia costaricensis* Cogn.
✓3892. *Aciotis rostellata* (Naud.) Triana
✓3905. *Miconia caudata* DC.
✓3964. *Centradenia Maxoniana* Gleason
✓4020. *Selaginella* sp.
✓4033. *Miconia ibaguensis* (Bonpl.) Triana
✓4044. *Henriettella Secmannii* Naud.
✓4057. *Miconia longifolia* (Aubl.) DC.
✓4072. *Miconia Matthaei* Naud.
✓4081. *Miconia hondurensis* D. Sm.
✓4084. *Miconia chamissois* Naud.
✓4088. *Clidemia rubra* (Aubl.) Mart.
✓4092. *Miconia pteropoda* Benth.
✓4094. *Clidemia neglecta* D. Don
✓4099. *Miconia borealis* Gleason
✓4101. *Acisanthera recurva* (L. C. ~~Smith~~ Rich.) Griseb.
✓4102. *Miconia rubiginosa* (Bonpl.) DC.
✓4104. *Eleocharis pachystyla* (C. Wright) Clarke
✓4108. *Miconia pteropoda* Benth.
✓4122. *Miconia punctata* (Desr.) D. Don
✓4154. *Miconia hondurensis* D. Sm.
✓4159. *Conostegia Bernoulliana* Cogn.
✓4160. *Miconia dodecandra* (Desr.) Cogn.
✓4162. *Henriettella flavescens* (Aubl.) Triana
✓4171. *Guatteria dolichopoda* D. Sm.
✓4175. *Conostegia xalapensis* (Bonpl.) D. Don (*C. lanceolata* Cogn.)
✓4205. *Centradenia grandifolia* (Schl.) Endl.
✓4249. *Dryopteris opposita* (Sw.) Urban
✓4259. *Miconia scorpioides* (E. & S.) Naud.
~~✓4275. *Miconia scorpioides* (E. & S.) Naud.~~
✓4276. *Miconia argentea* (Sw.) DC.
✓4280. *Calyptrella cyclophylla* D. Sm.
✓4289. *Miconia laevigata* (L.) DC.
✓4297. *Miconia impetiolearis* (Sw.) D. Don
✓4300. *Neea psychotrioides* D. Sm. det. Standley
✓4312. *Dichromena leucocephala* Mx. det. Standley
✓4320. *Miconia Schlimii* Triana
✓4337. *Hasseltia macroterantha* Standl. n. sp. type
✓4348. *Miconia laevigata* (L.) DC.
✓4352. *Miconia Matthaei* Naud.
✓4354. *Tassadia recurva* Rusby det. Standley

- ✓4358. *Miconia dodecandra* (Desr.) Cogn.
- ✓4360. *Henriettea succosa* (Aubl.) DC.
- 4361. *Polypodium* n. sp.
- ✓4368. *Ophioglossum reticulatum* L.
- ✓4381. *Dryopteris opposita* (Sw.) Urban
- ✓4386. *Neea psychotrioides* D. Sm. det. Standl.
- ✓4387. *Miconia impetiolearis* (Sw.) D. Don
- 4567. *Garcilassa rivularis* P. & E. det Standl.
- 4588. *Gonzalagunia ovatifolia* (D. Sm.) Rob.
- 4589. *Psychotria mima* Standl. n. sp. type
- 4634. *Sommeria grandis* (Bartl.) Standl.
- 4640. *Miconia punctata* (Desr.) D. Don
- 4642. *Manettia barbata* Oerst.
- 4684. *Alfaroa costaricensis* Standl.
- 4685. " " "
- 4690. *Centradenia Maxoniana* Gleason
- 4731. *Miconia caudata* DC.
- 4739. *Mandevilla hirsuta* (Rich.) K. Sch.
- 4747. *Gonzalagunia exaltata* Standl. type
- 4748. *Hamelia magnifolia* (Wernh.
- 4758. *Calatola costaricensis* Standl.
- 4763. *Psychotria marginata* Sw.
- 4764. *Psychotria brachiata* Sw.
- 4791. *Topobea Durandiana* Cogn.
- 4793. *Villaresia costaricensis* D. Sm.
- 4800. *Tabernaemontana longipes* D. Sm.
- 4808. *Clidemia hirta* (L.) D. Don
- 4833. *Miconia impetiolearis* (Sw.) DC.
- 4861. *Psychotria Berteriana* DC.
- 4867. *Miconia Schlimii* Triana
- 4882. *Stemmadenia Donnell-Smithii* (Rose) Woods.
- 4889. *Miconia pteropoda* Benth.
- 4893. *Clidemia sessiliflora* var. *angustifolia* Cogn.
- 4894. *Blakea gracilis* Hemsl.
- 4897. *Randia subcordata* Standl.
- 4920. *Clidemia dentata* D. Don
- 4924. *Miconia laevigata* (L.) DC
- 4925. *Randia armata* (Sw.) DC.
- 4926. *Posoqueria latifolia* (Rudge) R. & S.
- 4935. *Hoffmannia Tonduzii* Standl.
- 4948. *Ossaea* aff. *diversifolia*
- 4949. *Psychotria grandis* Sw.
- 4950. *Chiococca alba* (L.) Hitchc.

Omitted from above

- 4843. *Conostegia* sp.
- 4941. *Conostegia* sp.
- 4952. *Topobea* sp.



Costa Rican Compositae collected by A. F. Skutch

(5th Consignment, supplementary report)

(Accession no. 148934)

Identified by S. F. Blake, December 1940.

- ✓ 3395. *Cirsium pinnatisectum* (Klatt) Petrak
- ✓ 3398. *Baccharis trinervis* (Lam.) Pers.
- ✓ 3399. *Schistocarpha* sp.
- ✓ 3440. *Senecio streptothamnus* Greenm.
- ✓ 3443. *Baccharis trinervis* (Lam.) Pers.
- ✓ 3444. *Archibaccharis torquis* Blake
- ✓ 3445. *Gnaphalium roseum* HBK (?)
- ✓ 3446. *Vernonia canescens* HBK
- ✓ 3456. *Eupatorium hymenophyllum* Klatt
- ✓ 3467. *Gnaphalium spicatum* Lam.
- ✓ 3470. *Eupatorium anisochromum* Klatt
- ✓ 3487. " *pycnocephalum* Less.
- ✓ 3488. *Liabum polyanthum* Klatt
- ✓ 3490. *Zexmenia virgulta* Klatt
- ✓ 3503. *Eupatorium aschenbornianum* Schauers
- ✓ 3505. *Mikania skutchii* Blake
- ✓ 3544. *Otopappus verbesinoides* Benth.
- ✓ 3550. *Eupatorium pittieri* Klatt
- ✓ 3555. *Alomia microcarpa* (Benth.) Robinson
- ✓ 3615. *Eupatorium standleyi* Robinson
- ✓ 3619. *Cirsium costaricense* (Polak.) Petrak
- ✓ 3622. *Jungia ferruginea* L. f.
- ✓ 3655. *Mikania* sp.
- ✓ 3696. *Liabum bourgeauii* Hieron.
- ✓ 3699. *Eupatorium thieleianum* Klatt
- ✓ 3700. *Senecio megaphyllus* Greenm.
- ✓ 3786. *Eupatorium parasiticum* Klatt

N. R. M. DEC 26 1940

Guatemala ferns, collected by A. F. Skutch

Identifications by C. A. Weatherby

791. *Cheilanthes lendigera* Sw.
793. *Elaphoglossum Schiedei* (Kze.) Moore
794. "
795. *Cheilanthes intramarginalis* (Kaulf.) Hook.
796. *Elaphoglossum Schiedei* (Kze.) Moore
799. *Notholaena bonariensis* (Willd.) C. Chr.
800. *Polystichum distans* Fourn.
802. *Elaphoglossum plicatum* (Cav.) C. Chr.
805. *Pellaea cordata* (Cav.) J. Sm.
806. " *ternifolia* (Cav.) Link
807. *Notholaena bonariensis* (Willd.) C. Chr.
814. *Woodsia mollis* (Kaulf.) J. Sm.
818. *Elaphoglossum*
825. *Asplenium praemorsum* Sw.
840. *Cystopteris fragilis* (L.) Bernh.
865. *Plecosorus speciosissimus* (A. Br.) Moore
875. *Pteris orizabae* M. & G.
884. *Asplenium pinapinellifolium* Fée & Schaffn.
886. *Asplenium achillaefolium* (M. & G.) Liebm. var. *grande* (Fée) Baker
902. *Trichomanes capillaceum* L.
903. *Marattia excavata* Underw.?
904. *Polypodium cultratum* Willd.
907. *Trichomanes Kunzeanum* Hook. (*T. mexicanum* v. d. B.)
920. *Dryopteris*
939. *Hymenophyllum hirsutum* Sw. sens. lat.
940. *Vittaria lineata* (L.) Sm.
957. *Rhipidopteris peltata* (Sw.) Schott
973. *Dennstaedtia exaltata* (Kze.) Hieron.
977. *Asplenium alatum* H. & B.
983. *Blechnum ensiforme* (Liebm.) C. Chr.
984. *Elaphoglossum*
1047. *Gleichenia Underwoodiana* (Maxon) C. Chr.
1048. *Alsophila quadripinnata* (Gmel.) C. Chr.
1053. *Adiantum Capillus-Veneris* L.
1058. *Gleichenia Wancroftii* Hook.
1079. *Llavea cordifolia* Lag.
1081. *Selaginella cuspidata* Link
1084. *Lycopodium complanatum* L. var. *validum* Weatherby
1095. *Cheilanthes membranacea* (Davenp.) Maxon
1102. *Botrychium pusillum* Underw.
1118. *Anemia guatemalensis* Maxon
1141. *Pellaea rigida* (Sw.) Hook.
1149. *Notholaena sinuata* Kaulf.
1160. *Dryopteris denticulata* (Sw.) Ktze. f. *jucunda* (Fée) C. Chr.
1162. *Cyathea suprastrigosa* (Christ) Maxon
1185. *Elaphoglossum piloselloides* (Presl) Moore
1218. *Botrychium pusillum* Underw.
1295. *Polypodium cryptocarpon* Fée
1325. *Lycopodium linifolium* L.
1352. *Adiantum platyphyllum* Sw.

1369. *Adiantum pulverulentum* L.
 1375. *Gleichenia bifida* (Willd.) Spreng.
 1385. *Asplenium abscissum* Willd. sens. lat.
 1410. *Cyathea mexicana* Schlecht. & Cham.
 1466. *Nephrolepis pectinata* (Willd.) Schott
 1467. *Polypodium plebejum* Cham. & Schlecht. var. *Cooperi* Baker
 1478. *Adiantum fruticosum* Kze.
 1492. *Odontosoria guatemalensis* Christ
 1498. *Adiantopsis radiata* (L.) Fée
 1526. *Polypodium plebejum* Cham. & Schlecht. var. *Cooperi* Baker
 1531. *Cheilanthes lendigera* (Cav.) Sw.
 1596. *Pellaea atropurpurea* (L.) Link
 1604. *Anemia hirsuta* (L.) Sw.
 1664. *Hymenophyllum myriocarpum* Hook.?
 1669. *Polypodium Friedrichsthalianum* Kze.
 1698. *Cyathea Turckheimii* Maxon
 1757. *Woodwardia spirulosa* Mark. & Gal.
 1758. *Dryopteris patula* (Sw.) Underw. var. *chaerophylloides* (Moritz)
 C. Chr.
 1759. *Elaphoglossum piloselloides* (Presl) Moore
 1789. *Lindsaea lancea* (L.) Bedd.
 1792. *Asplenium auritum* Sw.
 1795. *Tectaria heracleifolia* (Willd.) Underw.
 1799. *Hymenophyllum ciliatum* Sw.
 1804. *Oleandra articulata* (Sw.) Presl
 1805. *Polybotrya cervina* (L.) Kze.
 1807. *Saccoloma elegans* Kaulf.
 1808. *Danaea elliptica* Sw.
 1823. *Polypodium fraxinifolium* Jacq.
 1833. *Cochlidium rostratum* (Hook.) Maxon
 1843. *Polypodium angustum* (H. & B.) Liebm.
 1850. *Lycopodium pathyodes* Cham. & Schlecht
 1853. *Equisetum giganteum* L.
 1861. *Lonchitis hirsuta* L.
 1864. *Dryopteris mexicana* (Fée) Fourn.
 1964. *Notholaena sinuata* Kaulf.
 2013. *Polypodium crassifolium* L.
 s.n. *Dryopteris falcata* (Liebm.) C. Chr.

Reed. 1940.

SCROPHULARIACEAE COLLECTED BY ALEXANDER F. SKUTCH

in GUATEMALA

- Berendtiella rugosa (Benth.) -- 1134
- Castilleja attenuata Pennell, ^{sk}~~TYPE~~ -- 1251 ✓
- Hemichaena fruticosa Benth. -- 1172
- Lamourouxia aperta Pennell, ^{sk}~~TYPE~~ -- 1252
- " pedunculata Pennell, ^{sk}~~TYPE~~ -- 1519
- " skutchii Pennell, ^{sk}~~TYPE~~ -- 1897
- " viscosa H.B.K. -- 1151
- Leucocarpus perfoliatus (H.B.K.) Benth -- 1488
- Penstemon gentianoides (H.B.K.) -- 828, 1250,
- Russelia crenatifolia Pennell, ^{sk}~~TYPE~~ -- 951
- " " " -- 1448, 2085
- " flavoviridis Blake -- 1770
- Sibthorpia repens (L.) Kuntze -- 1088
- Stemodia skutchii Pennell ^{sk}~~TYPE~~ -- 1391

~~Cuscuta 4438, 4267~~

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A. F. Skutch - Ecuador

Grasses, det. J. R. Swallen

Reported March 5, 1940

- 4392. *Lasiacis ruscifolia* (H.B.K.) Hitchc.
- 4397. *Lasiacis divaricata* (L.) Hitchc.
- 4412. *Ichnanthus candicans* (Nees) Doell.
- 4413. *Ichnanthus axillaris* (Nees) H. & C.
- 4414. *Panicum pilosum* Sw.
- 4423. *Pseudechinolaena polystachya* (H.B.K.) Stapf.
- 4452. *Ichnanthus pallens* (Swartz) Munro.
- 4454. *Pseudechinolaena polystachya* (H.B.K.) Stapf.
- 4460. *Lasiacis sorghoides* (Desv.) H. & C.
- 4471. *Arthoclada laxa* (Rich.) Beauv.
- 4535. *Pharus virescens* Doell.